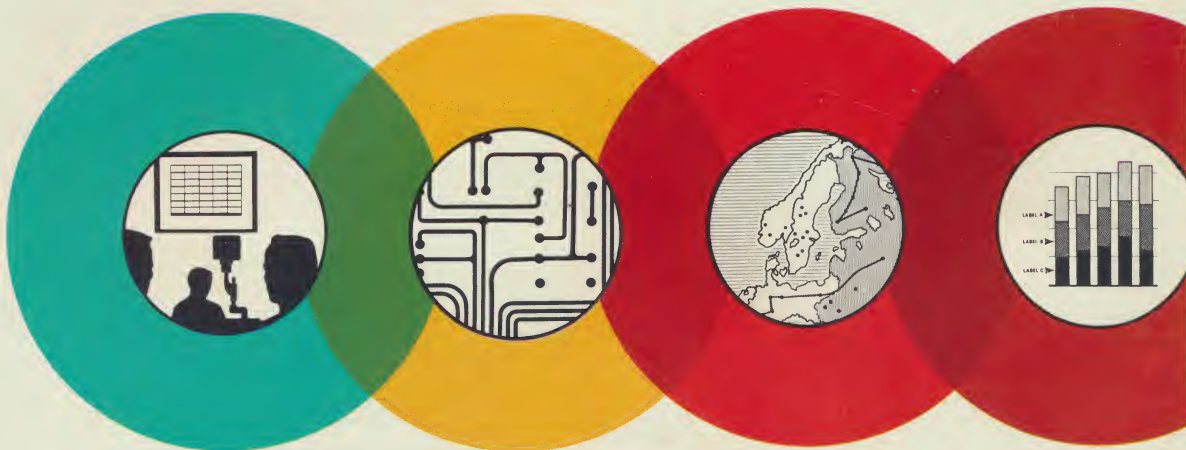


Drafting

Engineering

Reproduction

THE **CHART-PAK** TAPE METHOD OF DRAFTING AND VISUAL COMMUNICATION



Visual Communication

Printed Circuit
Design

Cartography

Charting

CHART-PAK, INC. • ONE RIVER ROAD • LEEDS, MASSACHUSETTS

A Company Of The Times

Chart-Pak, Inc. began from the exciting conception of an imaginative idea in 1950 — an idea to assist modern business, industry, government and education in the preparation and presentation of effective visual communications.

"Visualization Made Easier" was the original marketing concept of the Chart-Pak product line, evolving around the use of pressure-sensitive tapes and components.

Precision-slit and pre-printed pressure-sensitive tapes, papers and films in a variety of colors, patterns, sizes and finishes made attractive charts quickly, easily, economically.

As this concept developed, became widely known and understood, amateurs and professionals alike encouraged us to provide special tapes and pre-printed designs and die-cut symbols for engineering drawings, printed circuits, layouts, flow charts and other "original art work". Our products achieved usefulness in many areas other than visual communication, and the total Chart-Pak method became the "Tape Method of Drafting and Visual Communication."

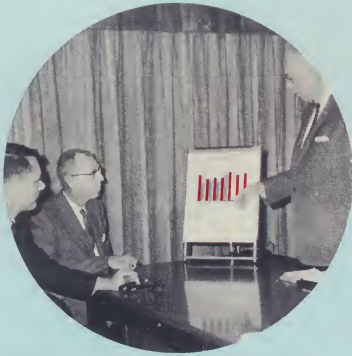
Our employees take pride in their ability to print and slit tapes to the exacting requirements of draftsmen, engineers and artists . . . in their ability to transform your imaginative ideas into practical pressure-sensitive products. We welcome the opportunity to manufacture special designs and reproduce them on tape or film to help you eliminate repetitive drawing and give you more time for creative planning.

Carefully selected factory-trained dealers are available in all major market areas of the United States, Canada and many foreign countries, to assure you immediate delivery on all standard Chart-Pak products. Dealers and Chart-Pak factory representatives are readily available to assist you with your particular needs for pressure-sensitive materials.

This is the Chart-Pak story. A company of the times with a look to the future.

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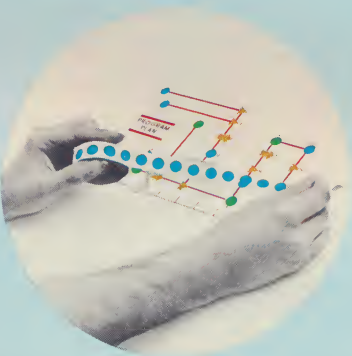
Perfect for quick presentations —
The brilliance of Chart-Pak Opaque
Gloss Tapes makes them easily visible
for direct presentations.



Ample Color Selection — Sixteen colors
used to identify or differentiate in maps,
charts, graphs, technical illustrations
and layouts.



Quick, Easy Revisions — Update outdated
work simply by lifting and replacing
tape. Lifts off without damaging layout
material. Eliminates re-makes. Saves
time and money.



Position, Press and Peel — Trans-Pak,
Chart-Pak's new die cut symbols, are
just as easy to use as Chart-Pak Tapes.
Request a Trans-Pak drafting and vis-
ual communication catalog.



Perfect Illustrations Without Ink — Chart-
Pak "Curve-Line" Tapes and "Tape-
Pen" may be used with guides or free-
hand. Either way, an endless variety
of shapes and forms may be made.



Creative Art And Art Work — Commercial
artists rely on Chart-Pak Tapes in plan-
ning and preparing designs, layouts,
mechanicals and client presentations.

Standard Width Gloss Tapes

SPECIFY CATALOG NUMBER AND QUANTITY WHEN ORDERING.
Example: When ordering 1" Orange Gloss Tape, order 1-5 and
the number of rolls needed.

Sizes and Prices	Black	Red	Blue	Green	Orange	Purple	Grey	White	Yellow	Silver	Gold	Brown	Light Blue	Light Green	Dark Green	Dark Orange
2" x 324" \$2.15/r.l.	2-1	2-2	2-3	2-4	2-5	2-6	2-7	2-10	2-11	2-12	2-13	2-14	2-15	2-16	2-17	2-18
1" x 324" \$1.25/r.l.	1-1	1-2	1-3	1-4	1-5	1-6	1-7	1-10	1-11	1-12	1-13	1-14	1-15	1-16	1-17	1-18
3/4" x 324" \$1.15/r.l.	7501	7502	7503	7504	7505	7506	7507	7510	7511	7512	7513	7514	7515	7516	7517	7518
1/2" x 324" \$1.00/r.l.	5001	5002	5003	5004	5005	5006	5007	5010	5011	5012	5013	5014	5015	5016	5017	5018
1/4" x 324" \$.90/r.l.	2501	2502	2503	2504	2505	2506	2507	2510	2511	2512	2513	2514	2515	2516	2517	2518
3/16" x 324" \$.90/r.l.	1871	1872	1873	1874	1875	1876	1877	18710	18711	18712	18713	18714	18715	18716	18717	18718
1/8" x 324" \$.80/r.l.	1251	1252	1253	1254	1255	1256	1257	12510	12511	12512	12513	12514	12515	12516	12517	12518

Available in
these 7 widths



SPECIAL SLITTING: All special slitting will carry the price of the next standard width as shown in the table. 10 rolls or more required for special slitting.

Opaque Matte Tapes

Non-Reflective Finish
"Curve-Line" & Standard Widths
10 Solid Colors — Vivid and Permanent

Chart-Pak Matte Surface Tapes are especially valuable to commercial artists, graphic designers and photographers, and are also used by draftsmen, engineers, architects, cartographers and technical illustrators.

Its non-reflective finish makes this tape practical for copyshooting and direct visual communication in group presentations and exhibits. Light doesn't bounce back. Glare and "hot spots" are eliminated.

The flat surface of Chart-Pak Matte Tapes is also an ideal writing surface for pen or pencil. When necessary, data may be written directly on the tape.

Chart-Pak Tapes are manufactured with a pressure-sensitive, heat-resistant adhesive. Tapes adhere easily, quickly. Stay down until you remove them. Lift off cleanly. Won't shrink, peel or fade. Perfect for crisp, clear diazo and/or photographic reproduction.

Select tape width according to use. The seven widest widths for heavy lines, base lines, borders and filling in bars.

"CURVE-LINE" TAPES

The four very narrow widths, Chart-Pak "Curve-Line" Tapes, assure accuracy in lines as narrow as 1/64". All Chart-Pak "Curve-Line" Tapes are guaranteed accurate to plus or minus .002".

"Curve-Line" Tapes are perfect for fine uniform lines and curves, borders, outlines, connecting lines and free-flow drawings. Curve with ease. Make sharp corners. Use the Chart-Pak "Tape-Pen" to guide the tape along a straight edge, French Curve or a geometric pattern.

Matte-Surface Tapes — for copy shooting and direct visual presentation.

- *Charts & Graphs* ■ *Floor Plans*
- *Commercial Art Work* ■ *Graphic Designs*
- *Technical Illustrations* ■ *Maps*
- *Office & Plant Layouts*

TAPE TIPS: In applying Chart-Pak Tapes, avoid stretching by simply *pressing* tape into position. Do not stretch the tape between the designated points.

- When making visual presentations, speaker notes can be written directly on Matte Surface Tapes.

See Page 6 for tapes with a gloss finish.

"Curve-Line" Matte Tapes

SPECIFY CATALOG NUMBER AND QUANTITY WHEN ORDERING.

Example: When ordering 1/16" Blue Matte Surface "Curve-Line" Tape, order 6203M — and the number of rolls or packages needed.

Sizes and Prices	Black	Red	Blue	Green	White	Yellow	Brown	Light Blue	Light Green	Dark Orange
3/32" x 648" \$.90/rl. or \$4.00/pkg. 5 rls.	9301M	9302M	9303M	9304M	9310M	9311M	9314M	9315M	9316M	9318M
1/16" x 648" \$.90/rl. or \$4.00/pkg. 5 rls.	6201M	6202M	6203M	6204M	6210M	6211M	6214M	6215M	6216M	6218M
1/32" x 648" \$.90/rl. or \$4.00/pkg. 5 rls.	3101M	3102M	3103M	3104M	3110M	3111M	3114M	3115M	3116M	3118M
1/64" x 648" \$.90/rl. or \$4.00/pkg. 5 rls.	1501M	1502M	1503M	1504M	1510M	1511M	1514M	1515M	1516M	1518M

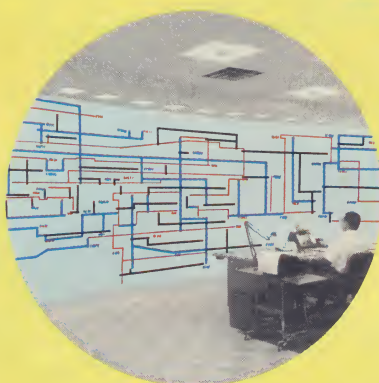
Available in these 4 widths

1/64" 1/32" 1/16" 3/32"

SPECIAL SLITTING: All special slitting will carry the price of the next standard width as shown in the table. 10 rolls or more required for special slitting.



Light Is Refracted — Chart-Pak non-reflective Matte Tapes are clearly viewed from any angle. No annoying glare in direct visual presentations.



Simple Identification — Giant wall map drawn with Chart-Pak Tape hangs on wall of Florida Power Corporation, St. Petersburg, Florida. Combination of matte solid-color, pattern and symbol tapes, slit to precise widths, aid in fast, positive identification of 400 miles of overhead distribution feeders and 50 miles of underground cables.

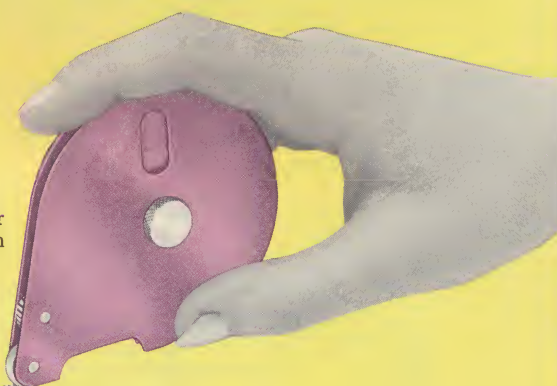


Crisp, Clear Photographic Shots — No problems for the graphic arts cameraman in copyshooting. "Hot spots" are eliminated. Crisp, clear dense negatives — minimum opaquing.



Ideal Writing Surface — When necessary, data or speaker notes may be applied directly on the matte-flat surface of Chart-Pak Matte Tapes

Chart-Pak's Precision "Tape-Pen" for accurate, uniform lines made with "Curve-Line" Tape. See Page 15.



Standard Width Matte Tapes

SPECIFY CATALOG NUMBER AND QUANTITY WHEN ORDERING.

Example: When ordering 1/2" Black Matte Surface Tape, order 5001M — and the number of rolls needed.

Sizes and Prices	Black	Red	Blue	Green	White	Yellow	Brown	Light Blue	Light Green	Dark Orange
2" x 324" \$2.25/rl.	2-1M	2-2M	2-3M	2-4M	2-10M	2-11M	2-14M	2-15M	2-16M	2-18M
1" x 324" \$1.35/rl.	1-1M	1-2M	1-3M	1-4M	1-10M	1-11M	1-14M	1-15M	1-16M	1-18M
3/4" x 324" \$1.25/rl.	7501M	7502M	7503M	7504M	7510M	7511M	7514M	7515M	7516M	7518M
1/2" x 324" \$1.10/rl.	5001M	5002M	5003M	5004M	5010M	5011M	5014M	5015M	5016M	5018M
1/4" x 324" \$1.00/rl.	2501M	2502M	2503M	2504M	2510M	2511M	2514M	2515M	2516M	2518M
3/16" x 324" \$1.00/rl.	1871M	1872M	1873M	1874M	18710M	18711M	18714M	18715M	18716M	18718M
1/8" x 324" \$.90/rl.	1251M	1252M	1253M	1254M	12510M	12511M	12514M	12515M	12516M	12518M

Available in
these 7 widths

2"

1"

3/4"

1/2"

1/4"

3/16"

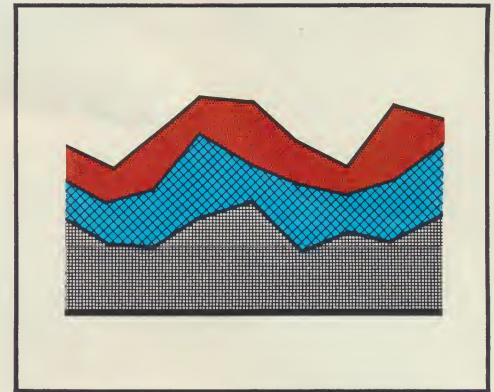
1/8"

SPECIAL SLITTING: All special slitting will carry the price of the next standard width as shown in the table. 10 rolls or more required for special slitting.

■ SURFACE CURVE CHART

For showing differentiation of trends, amounts and results over a period of time. A dramatic variation of the basic line chart, it is also good for emphasizing one significant time, in a time series. Three curves can be shown if the lines do not cross. Chart-Pak "Curve-Line" Tapes make the narrow lines, and "Contak" Film, available in a multitude of shading patterns and 27 Contak Color Tints, create the areas between the lines.

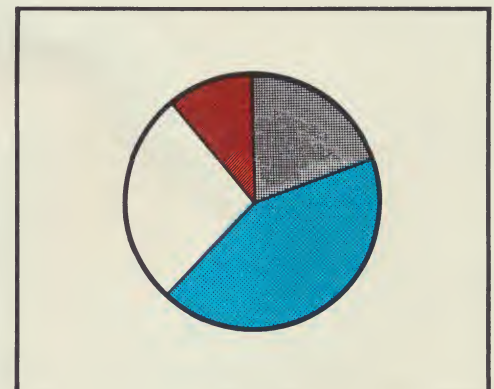
VARIATIONS: Staircase Surface, Cumulative Surface, Line and Surface.



■ PIE CHART

For showing divisions of a whole. The point of the chart should be immediately obvious. Unless the chart's purpose is to emphasize one sector, divisions of the circle should be few. Chart-Pak Tape Pen and Beam Compass attachment make perfect circles with tape. Shading should be light, and contrasts limited. Chart-Pak's varied selection of 27 Contak Color Tints and a wide variety of patterns in Contak Shading Film offers many compatible combinations.

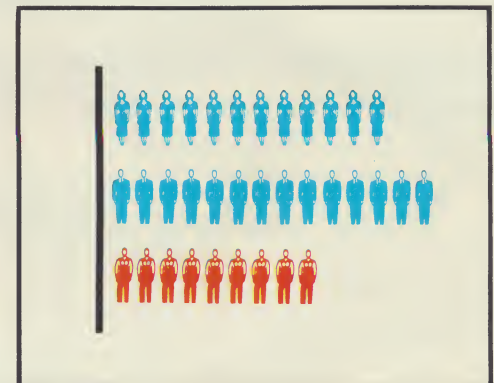
VARIATIONS: Double Pie, Miniature Pie, Satellite Pie, Segment Analysis Pie.



■ PICTORIAL CHART

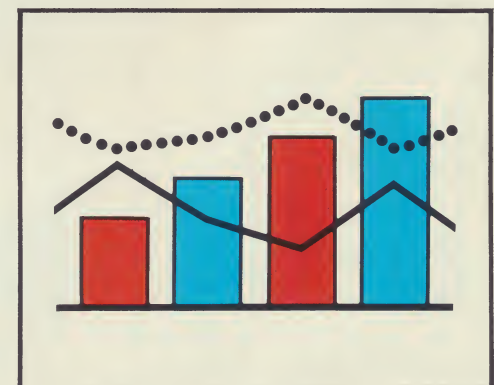
For showing simple comparisons of relationship symbolically. Statistical facts are presented this way when attention and interest must be attracted — as in newspapers and magazines. Symbols usually represent subject and quantity. Chart-Pak "Picto-Pak" and Trans-Pak die cut symbols contain many representative configurations in various sizes and base materials.

VARIATIONS: Bar and Picture, Column and Picture.



■ COMBINATION CHART

For combining the purposes of more than one chart. A combination of two, usually trend lines and column comparisons, is most effective. Simplicity is especially important because more than one point must be conveyed. Overlays are helpful. Chart-Pak Transparent Color Tapes are essential aids because they do not obscure material underneath and add "instant color" to your presentation.



Opaque Gloss Tapes

16 Solid Colors — Brilliant and Permanent "Curve-Line" & Standard Widths

Chart-Pak Opaque Gloss Tapes are used extensively and advantageously by draftsmen, engineers, architects, cartographers, technical illustrators, commercial artists, graphic designers and exhibit designers.

The smooth, gloss finish of these tapes enhances the vivid colors. Each of the 16 solid, permanent colors is brilliant enough to be distinguished from a distance and is extremely effective in direct visual presentations.

Chart-Pak Tapes are manufactured with a pressure-sensitive, heat-resistant adhesive. Tapes adhere easily, quickly. Stay down until you remove them. Lift off cleanly. Won't shrink, peel or fade. Guarantees perfect diazo and/or photographic reproduction.

Select tape width according to need. The seven widest widths for heavy lines, base lines, borders and creating color bars.

"CURVE-LINE" TAPES

The four narrow widths, Chart-Pak "Curve-Line"

Tapes, assure accuracy in lines as narrow as 1/64". All "Curve-Line" Tapes are guaranteed accurate to plus or minus .002".

"Curve-Line" Tapes are ideal for fine uniform lines and curves, borders, outlining, connecting lines and free-flow drawings. Curve tape with ease. Make sharp corners. For easy "Curve-Line" Tape application, use the Chart-Pak "Tape-Pen". It smoothly rolls on a line of Chart-Pak Tape either free hand or following a straight edge. The "Tape-Pen" is available in seven sizes.

Opaque Gloss Surface Tapes —
for visual communication

- *Charts & Graphs*
- *Commercial Art Work*
- *Technical Illustrations*
- *Graphic Designs*
- *Office & Plant Layouts*
- *Maps & Diagrams*

TAPE TIP: Consider your purpose when selecting color. Color may be used to stimulate interest or represent a subject.

See Page 8 for tapes with a non-reflective matte finish.

"Curve-Line" Gloss Tapes

SPECIFY CATALOG NUMBER AND QUANTITY WHEN ORDERING.

Example: When ordering 1/32" Yellow "Curve-Line" Tape, order 3111 and number of rolls needed.

Sizes and Prices	Black	Red	Blue	Green	Orange	Purple	Grey	White	Yellow	Silver	Gold	Brown	Light Blue	Light Green	Dark Green	Dark Orange
3/32" x 648" \$.80/rl. or \$3.50/pkg. 5 rls.	9301	9302	9303	9304	9305	9306	9307	9310	9311	9312	9313	9314	9315	9316	9317	9318
1/16" x 648" \$.80/rl. or \$3.50/pkg. 5 rls.	6201	6202	6203	6204	6205	6206	6207	6210	6211	6212	6213	6214	6215	6216	6217	6218
1/32" x 648" \$.80/rl. or \$3.50/pkg. 5 rls.	3101	3102	3103	3104	3105	3106	3107	3110	3111	3112	3113	3114	3115	3116	3117	3118
1/64" x 648" \$.80/rl. or \$3.50/pkg. 5 rls.	1501	1502	1503	1504	1505	1506	1507	1510	1511	1512	1513	1514	1515	1516	1517	1518

Available in these 4 widths

1/64" | 1/32" | 1/16" | 3/32"

SPECIAL SLITTING: All special slitting will carry the price of the next standard width as shown in the table. 10 rolls or more required for special slitting.

Opaque Matte Tapes

Non-Reflective Finish

"Curve-Line" & Standard Widths

10 Solid Colors — Vivid and Permanent

Chart-Pak Matte Surface Tapes are especially valuable to commercial artists, graphic designers and photographers, and are also used by draftsmen, engineers, architects, cartographers and technical illustrators.

Its non-reflective finish makes this tape practical for copyshooting and direct visual communication in group presentations and exhibits. Light doesn't bounce back. Glare and "hot spots" are eliminated.

The flat surface of Chart-Pak Matte Tapes is also an ideal writing surface for pen or pencil. When necessary, data may be written directly on the tape.

Chart-Pak Tapes are manufactured with a pressure-sensitive, heat-resistant adhesive. Tapes adhere easily, quickly. Stay down until you remove them. Lift off cleanly. Won't shrink, peel or fade. Perfect for crisp, clear diazo and/or photographic reproduction.

Select tape width according to use. The seven widest widths for heavy lines, base lines, borders and filling in bars.

"CURVE-LINE" TAPES

The four very narrow widths, Chart-Pak "Curve-Line" Tapes, assure accuracy in lines as narrow as 1/64". All Chart-Pak "Curve-Line" Tapes are guaranteed accurate to plus or minus .002".

"Curve-Line" Tapes are perfect for fine uniform lines and curves, borders, outlines, connecting lines and free-flow drawings. Curve with ease. Make sharp corners. Use the Chart-Pak "Tape-Pen" to guide the tape along a straight edge, French Curve or a geometric pattern.

Matte-Surface Tapes — for copy shooting and direct visual presentation.

- Charts & Graphs
- Floor Plans
- Commercial Art Work
- Graphic Designs
- Technical Illustrations
- Maps
- Office & Plant Layouts

TAPE TIPS: In applying Chart-Pak Tapes, avoid stretching by simply *pressing* tape into position. Do not stretch the tape between the designated points.

- When making visual presentations, speaker notes can be written directly on Matte Surface Tapes.

See Page 6 for tapes with a gloss finish.

"Curve-Line" Matte Tapes

SPECIFY CATALOG NUMBER AND QUANTITY WHEN ORDERING.

Example: When ordering 1/16" Blue Matte Surface "Curve-Line" Tape, order 6203M — and the number of rolls or packages needed.

Sizes and Prices	Black	Red	Blue	Green	White	Yellow	Brown	Light Blue	Light Green	Dark Orange
3/32" x 648" \$.90/rl. or \$4.00/pkg. 5 rls.	9301M	9302M	9303M	9304M	9310M	9311M	9314M	9315M	9316M	9318M
1/16" x 648" \$.90/rl. or \$4.00/pkg. 5 rls.	6201M	6202M	6203M	6204M	6210M	6211M	6214M	6215M	6216M	6218M
1/32" x 648" \$.90/rl. or \$4.00/pkg. 5 rls.	3101M	3102M	3103M	3104M	3110M	3111M	3114M	3115M	3116M	3118M
1/64" x 648" \$.90/rl. or \$4.00/pkg. 5 rls.	1501M	1502M	1503M	1504M	1510M	1511M	1514M	1515M	1516M	1518M

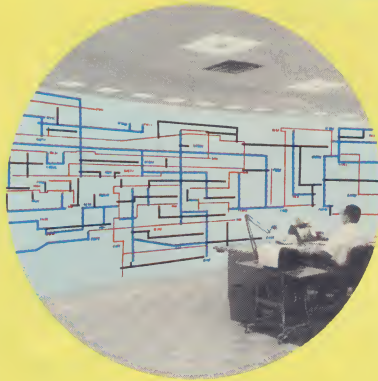
Available in these 4 widths

1/64" 1/32" 1/16" 3/32"

SPECIAL SLITTING: All special slitting will carry the price of the next standard width as shown in the table. 10 rolls or more required for special slitting.



Light Is Refracted — Chart-Pak non-reflective Matte Tapes are clearly viewed from any angle. No annoying glare in direct visual presentations.



Simple Identification — Giant wall map drawn with Chart-Pak Tape hangs on wall of Florida Power Corporation, St. Petersburg, Florida. Combination of matte solid-color, pattern and symbol tapes, slit to precise widths, aid in fast, positive identification of 400 miles of overhead distribution feeders and 50 miles of underground cables.

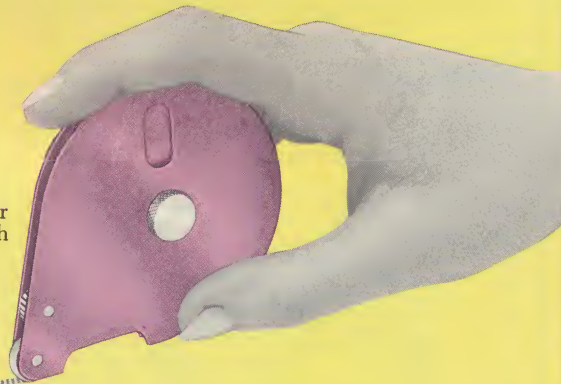


Crisp, Clear Photographic Shots — No problems for the graphic arts cameraman in cophotography. "Hot spots" are eliminated. Crisp, clear dense negatives — minimum opaquing.



Ideal Writing Surface — When necessary, data or speaker notes may be applied directly on the matte-flat surface of Chart-Pak Matte Tapes

Chart-Pak's Precision "Tape-Pen" for accurate, uniform lines made with "Curve-Line" Tape. See Page 15.



Standard Width Matte Tapes

SPECIFY CATALOG NUMBER AND QUANTITY WHEN ORDERING.

Example: When ordering 1/2" Black Matte Surface Tape, order 5001M — and the number of rolls needed.

Sizes and Prices	Black	Red	Blue	Green	White	Yellow	Brown	Light Blue	Light Green	Dark Orange
2" x 324" \$2.25/rl.	2-1M	2-2M	2-3M	2-4M	2-10M	2-11M	2-14M	2-15M	2-16M	2-18M
1" x 324" \$1.35/rl.	1-1M	1-2M	1-3M	1-4M	1-10M	1-11M	1-14M	1-15M	1-16M	1-18M
3/4" x 324" \$1.25/rl.	7501M	7502M	7503M	7504M	7510M	7511M	7514M	7515M	7516M	7518M
1/2" x 324" \$1.10/rl.	5001M	5002M	5003M	5004M	5010M	5011M	5014M	5015M	5016M	5018M
1/4" x 324" \$1.00/rl.	2501M	2502M	2503M	2504M	2510M	2511M	2514M	2515M	2516M	2518M
3/16" x 324" \$1.00/rl.	1871M	1872M	1873M	1874M	18710M	18711M	18714M	18715M	18716M	18718M
1/8" x 324" \$.90/rl.	1251M	1252M	1253M	1254M	12510M	12511M	12514M	12515M	12516M	12518M

Available in
these 7 widths

2"

1"

3/4"

1/2"

1/4"

3/16"

1/8"

SPECIAL SLITTING: All special slitting will carry the price of the next standard width as shown in the table. 10 rolls or more required for special slitting.

Transparent Color Tapes

SPECIFY CATALOG NUMBER AND QUANTITY WHEN ORDERING.

Example: When ordering 1/16" Green "Curve-Line" Tape, order TC6204 and the number of rolls needed.

Sizes and Prices	Red	Blue	Green	Orange	Purple	Grey	Pink	Yellow	Brown	Light Blue	Light Green
1" x 324" \$1.40/rl.	TC1-2	TC1-3	TC1-4	TC1-5	TC1-6	TC1-7	TC1-8	TC1-11	TC1-14	TC1-15	TC1-16
1/2" x 324" \$1.15/rl.	TC5002	TC5003	TC5004	TC5005	TC5006	TC5007	TC5008	TC5011	TC5014	TC5015	TC5016
1/4" x 324" \$1.00/rl.	TC2502	TC2503	TC2504	TC2505	TC2506	TC2507	TC2508	TC2511	TC2514	TC2515	TC2516
1/8" x 324" \$.90/rl.	TC1252	TC1253	TC1254	TC1255	TC1256	TC1257	TC1258	TC12511	TC12514	TC12515	TC12516
1/16" x 648" \$.90/rl. or \$4.00/pkg. 5 rls.	TC6202	TC6203	TC6204	TC6205	TC6206	TC6207	TC6208	TC6211	TC6214	TC6215	TC6216
1/32" x 648" \$.90/rl. or \$4.00/pkg. 5 rls.	TC3102	TC3103	TC3104	TC3105	TC3106	TC3107	TC3108	TC3111	TC3114	TC3115	TC3116

SPECIAL SLITTING: All special slitting will carry the price of the next standard width as shown in the table. 10 rolls or more required for special slitting.

11 Transparent Colors — Vivid and Permanent Standard and "Curve-Line" Widths

Chart-Pak Transparent Color Tapes are used primarily in the Audio-Visual field, and by teachers and training personnel. Transparent Color Tapes are also used effectively by commercial artists, technical illustrators, cartographers, draftsmen, engineers and architects.

The clear finish and transparency of the color and adhesive allow for full brilliant transmission of color for projection. Especially useful for slides and projectuals. Add instant color to any projectual. Transparent Color Tapes placed over copy, artwork or photographs do not obscure material underneath. Quick, colorful presentations are possible with Chart-Pak Transparent Color Tapes.

Chart-Pak Transparent Color Tapes are backed with a pressure-sensitive, heat resistant adhesive. Tapes adhere easily, quickly. Stay down until you remove them. Lift off cleanly. Won't shrink or peel. Transparent Color Tapes are perfect for diazo reproduction when shades of grey are needed.

Transparent Color Tapes are available in six widths and eleven colors. The widest widths for heavy lines, base lines, borders

and color bars. The "Curve-Line" widths are perfect for fine uniform lines and curves, borders, outlines, connecting lines and free-flow drawings. Use Chart-Pak "Tape-Pen" to guide narrow width tape along a straight edge, French Curve or geometric pattern.

Transparent Color Tapes provide "instant color" — for slides, transparencies, projectuals and overlays.

- Teaching & Training Aids
- Maps & Diagrams
- Technical Illustrations
- Charts & Graphs
- Office & Plant Layouts
- Photographs
- Commercial Artwork
- Graphic Designs
- Floor Plans

TAPE TIP: Unusual effects and additional colors can be achieved by overlapping or superimposing Transparent Color Tapes on Chart-Pak Opaque or Transparent Pattern Tapes.

Refer to Contak catalog for Color Tint transparent film sheets.

Available In
These 6 Widths

1"

1/2"

1/4"

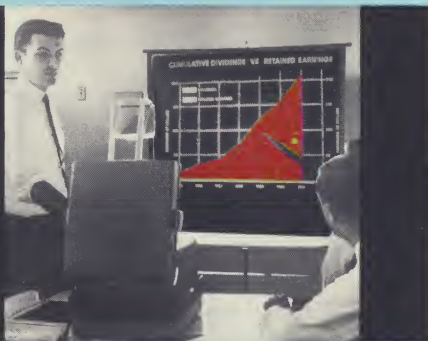
1/8"

1/16"

1/32"



From Black & White To Color — Stimulate students by enhancing teaching aids with Chart-Pak Transparent Color Tapes. Add color without obscuring detail.



True Color Projection — Chart-Pak Transparent Color Tapes transmit light . . . permitting true colors to be projected. Slides and transparencies are easy to make in a minimum of time.



Dual Purpose Presentations — Alternatives to a basic plan or idea may be shown by using overlays made with Chart-Pak Transparent Color Tapes.

Chrome And Gold Tapes

TRANSPARENT COLOR TAPES

CHROME & GOLD TAPES

SPACED LETTERING

Sizes	Chrome	Gold	Price
1" x 324"	1-19	1-9	\$2.00/rl.
1/2" x 324"	5019	5009	\$1.50/rl.
1/4" x 324"	2519	2509	\$1.25/rl.
1/8" x 324"	12519	12509	\$1.15/rl.
1/16" x 648"	6219	6209	\$1.10/rl. or \$5.00/pkg. 5 rls.
1/32" x 648"	3119	3109	\$1.10/rl. or \$5.00/pkg. 5 rls.
1/64" x 648"	1519	1509	\$1.10/rl. or \$5.00/pkg. 5 rls.

Weather-Resistant Finish Standard & Narrow Widths

Chart-Pak Chrome & Gold Tapes are attractive and effective as decorative or symbolic colors in visual presentations, signs, exhibits, displays, bulletin boards, striping and modeling.

Thin-gauge, tough, weather-resistant metallized "Mylar"* base material makes these tapes especially suitable for outdoor usage. These tapes are metallized (non-conductive) and have a permanent bright metallic-looking finish.

*DuPont's registered trade-mark for their polyester film.

SPECIFY CATALOG NUMBER, COLOR AND QUANTITY WHEN ORDERING.

Example: When ordering 1/4" Chrome Tape, order 2519 and the number of rolls required.

SPECIAL SLITTING: All special slitting will carry the price of the next standard width as shown in the table. 10 rolls or more are required for special slitting.

Chart-Pak Spaced Lettering

Opaque Black Letters on Clear Pressure-Sensitive Acetate Film

Chart-Pak Spaced Lettering is quickly transferred to any smooth surface—paper, card stock, polyester film, acetate, wood, metal, glass.

Characters are printed in opaque black on clear acetate pressure-sensitive sheets. Just lift the letters off the sheet and place into position. Letters adhere easily, quickly. May be lifted and repositioned. Heat-resistant adhesive assures crisp reproduction by diazo or photographic methods. Letters won't shrink or peel.

Each set contains the complete alphabet, numerals and punctuation marks plus an abundance of the most frequently used characters—all in an easy-to-read type face. Area to the right of each character allows for accurate spacing. Chart-Pak Spaced Lettering sets include Lettering Guide and Layout Sheet. Application is simple, assures professional results. (Upper and lower case available in all sizes except 96 point lettering, which is available in upper case only.)

SPACED LETTERING — for visual presentation, reproduction (diazo and photographic) or overhead projectuals.

- Charts & Graphs
- Commercial Art
- Exhibits and Displays
- Scale Models
- Overlays
- Maps & Diagrams
- Graphic Design
- Signs and Show Cards
- Title Cards

TAPE TIP: Just press Chart-Pak Letters into position. Pressure-sensitive adhesive adheres immediately. No burnishing required.

A A

96 POINT

A A B C

48 POINT

A B C D E F G

24 POINT

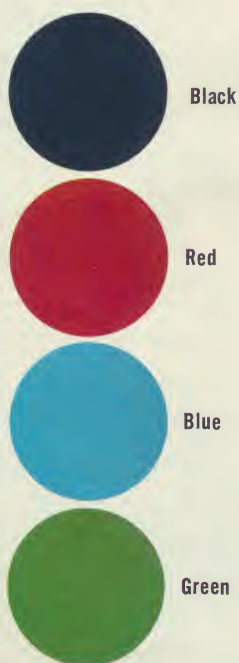
A B C D E F G H I J K L M

12 POINT

Cat. No.	Description	Price
SL-1A	96 point — 1" 457 characters — 12 sheets per set	\$6.60
SL-12A	48 point — 1/2" 630 characters — 6 sheets per set	3.30
SL-14A	24 point — 1/4" 797 characters — 3 sheets per set	1.65
SL-18A	12 point — 1/8" 1632 characters — 3 sheets per set	1.65
	Single sheet of any set	60¢



Printed in 7 colors on opaque tape



Printed in 4 colors on transparent tape

Standard Pattern Tapes

Opaque Tape in 7 colors

Transparent Tape in 4 colors

Standard & "Curve-Line" Widths

Chart-Pak Opaque and Transparent Pattern Tapes are used by draftsmen, engineers, architects, cartographers, technical illustrators, commercial artists, graphic designers, chartists and exhibit designers. Audio-Visual people, teachers and training personnel are also prime users of Chart-Pak Opaque and Transparent Pattern Tapes.

Ten different patterns, each available in six widths, offer chart and graph makers endless possibilities for quick distinctive color lines, bars and curves. The widest widths eliminate tedious hand-crosshatching on charts and graphs. Spacing and patterns are consistently equal. "Curve-Line" Tapes are perfect for fine uniform lines and curves, borders, outlines, connecting lines and free-flow drawings. Use Chart-Pak's "Tape-Pen" to guide tape along a straight edge, French Curve or geometric pattern.

Available in "Curve-Line" sizes from 1/64" to 1/16" and in standard sizes from 1/8" to 1/4".

The clear finish of Transparent Tapes reproduces beautifully by the diazo method and lets you differentiate by pattern. Opaque Tapes photograph crisp and clear.

Chart-Pak Tapes are backed with a pressure-sensitive, heat-resistant adhesive. Tapes adhere easily, quickly. Stay down until you remove them. Lift off cleanly. Won't shrink or peel.

Standard Pattern Tapes — *opaque* for direct visual communication and photographic reproduction.

transparent for diazo reproduction and overhead projectuals. *matte* finish available on special order.

- | | |
|------------------------------|--------------------------|
| ■ Charts & Graphs | ■ Maps & Diagrams |
| ■ Newspaper Borders | ■ Commercial Art Work |
| ■ Teaching & Training Aids | ■ Photographs |
| ■ Technical Illustrations | ■ Graphic Design |
| ■ Floor Plans | ■ Office & Plant Layouts |
| ■ Displays, Exhibits & Signs | |

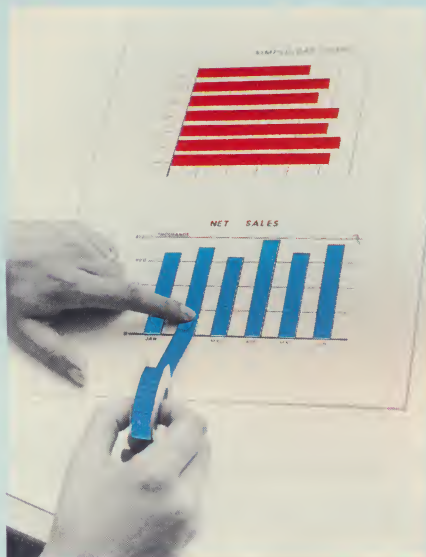
TAPE TIP: Use compatible patterns and colors to avoid optical illusions.

Refer to Contak catalog for selection of Color Tints and Shading Film Patterns.

Patterns Illustrated Are Actual Size

Specify Catalog Number And Quantity When Ordering

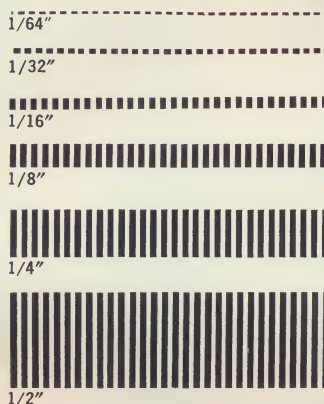
If color is not specified, black will be shipped.



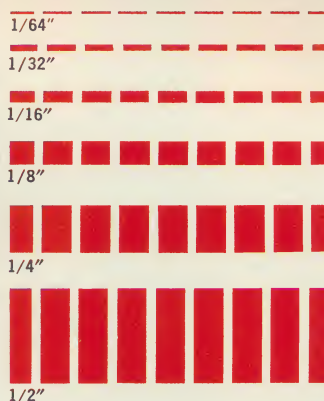
Hand-Crosshatching Eliminated — No more tedious pen and ink work to get distinctive patterns for bars, lines and curves. Ten patterns offer endless possibilities for differentiation in charts and graphs.



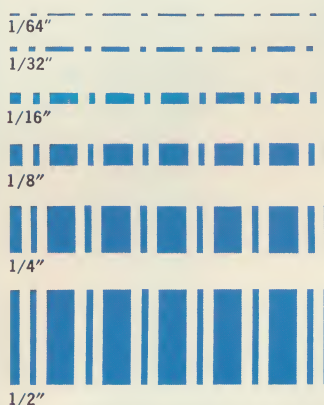
Perfect Transparencies — The clear finish of Transparent Pattern Tapes reproduces beautifully. Yet the tape isn't affected by the reproduction process. Instant color can be added to any transparency with Chart-Pak Transparent Color Tapes.



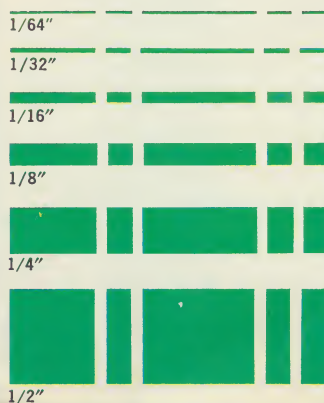
Sizes/and Prices	Cat. Nos. (Opaque)	Cat. Nos. (Transparent)
1/64" x 648" \$3.50/pkg. 5 rls.	1520	1520T
1/32" x 648" \$3.50/pkg. 5 rls.	3120	3120T
1/16" x 648" \$3.50/pkg. 5 rls.	6220	6220T
1/8" x 324" \$1.00/rl.	12520	12520T
1/4" x 324" \$1.25/rl.	2520	2520T
1/2" x 324" \$1.45/rl.	5020	5020T



Sizes/and Prices	Cat. Nos. (Opaque)	Cat. Nos. (Transparent)
1/64" x 648" \$3.50/pkg. 5 rls.	1521	1521T
1/32" x 648" \$3.50/pkg. 5 rls.	3121	3121T
1/16" x 648" \$3.50/pkg. 5 rls.	6221	6221T
1/8" x 324" \$1.00/rl.	12521	12521T
1/4" x 324" \$1.25/rl.	2521	2521T
1/2" x 324" \$1.45/rl.	5021	5021T



Sizes/and Prices	Cat. Nos. (Opaque)	Cat. Nos. (Transparent)
1/64" x 648" \$3.50/pkg. 5 rls.	1522	1522T
1/32" x 648" \$3.50/pkg. 5 rls.	3122	3122T
1/16" x 648" \$3.50/pkg. 5 rls.	6222	6222T
1/8" x 324" \$1.00/rl.	12522	12522T
1/4" x 324" \$1.25/rl.	2522	2522T
1/2" x 324" \$1.45/rl.	5022	5022T



Sizes/and Prices	Cat. Nos. (Opaque)	Cat. Nos. (Transparent)
1/64" x 648" \$3.50/pkg. 5 rls.	1523	1523T
1/32" x 648" \$3.50/pkg. 5 rls.	3123	3123T
1/16" x 648" \$3.50/pkg. 5 rls.	6223	6223T
1/8" x 324" \$1.00/rl.	12523	12523T
1/4" x 324" \$1.25/rl.	2523	2523T
1/2" x 324" \$1.45/rl.	5023	5023T

Pattern Tapes continued on next page

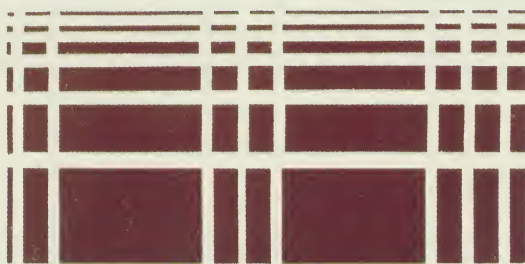


Opaque Tape
in 7 Colors

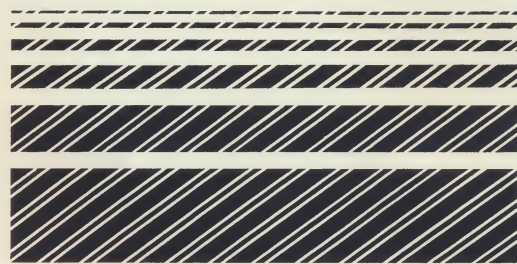


Transparent Tape
in 4 Colors

If color is not specified, black will be shipped.



Sizes/and Prices	Cat. Nos. (Opaque)	Cat. Nos. (Transparent)
1/64" x 648" \$3.50/pkg. 5 rls.	1524	1524T
1/32" x 648" \$3.50/pkg. 5 rls.	3124	3124T
1/16" x 648" \$3.50/pkg. 5 rls.	6224	6224T
1/8" x 324" \$1.00/rl.	12524	12524T
1/4" x 324" \$1.25/rl.	2524	2524T
1/2" x 324" \$1.45/rl.	5024	5024T



Sizes/and Prices	Cat. Nos. (Opaque)	Cat. Nos. (Transparent)
1/64" x 648" \$3.50/pkg. 5 rls.	1527	1527T
1/32" x 648" \$3.50/pkg. 5 rls.	3127	3127T
1/16" x 648" \$3.50/pkg. 5 rls.	6227	6227T
1/8" x 324" \$1.00/rl.	12527	12527T
1/4" x 324" \$1.25/rl.	2527	2527T
1/2" x 324" \$1.45/rl.	5027	5027T



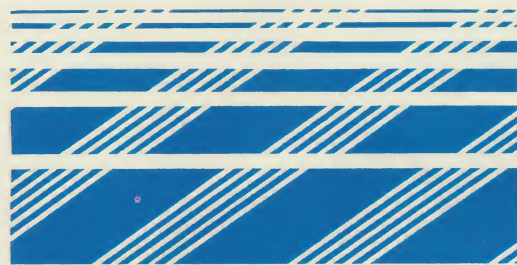
Sizes/and Prices	Cat. Nos. (Opaque)	Cat. Nos. (Transparent)
1/64" x 648" \$3.50/pkg. 5 rls.	1525	1525T
1/32" x 648" \$3.50/pkg. 5 rls.	3125	3125T
1/16" x 648" \$3.50/pkg. 5 rls.	6225	6225T
1/8" x 324" \$1.00/rl.	12525	12525T
1/4" x 324" \$1.25/rl.	2525	2525T
1/2" x 324" \$1.45/rl.	5025	5025T



Sizes/and Prices	Cat. Nos. (Opaque)	Cat. Nos. (Transparent)
1/64" x 648" \$3.50/pkg. 5 rls.	1528	1528T
1/32" x 648" \$3.50/pkg. 5 rls.	3128	3128T
1/16" x 648" \$3.50/pkg. 5 rls.	6228	6228T
1/8" x 324" \$1.00/rl.	12528	12528T
1/4" x 324" \$1.25/rl.	2528	2528T
1/2" x 324" \$1.45/rl.	5028	5028T



Sizes/and Prices	Cat. Nos. (Opaque)	Cat. Nos. (Transparent)
1/64" x 648" \$3.50/pkg. 5 rls.	1526	1526T
1/32" x 648" \$3.50/pkg. 5 rls.	3126	3126T
1/16" x 648" \$3.50/pkg. 5 rls.	6226	6226T
1/8" x 324" \$1.00/rl.	12526	12526T
1/4" x 324" \$1.25/rl.	2526	2526T
1/2" x 324" \$1.45/rl.	5026	5026T



Sizes/and Prices	Cat. Nos. (Opaque)	Cat. Nos. (Transparent)
1/64" x 648" \$3.50/pkg. 5 rls.	1529	1529T
1/32" x 648" \$3.50/pkg. 5 rls.	3129	3129T
1/16" x 648" \$3.50/pkg. 5 rls.	6229	6229T
1/8" x 324" \$1.00/rl.	12529	12529T
1/4" x 324" \$1.25/rl.	2529	2529T
1/2" x 324" \$1.45/rl.	5029	5029T



BEAM COMPASS "TAPE-PEN" HOLDER

Designed for use with a Chart-Pak "Tape-Pen" to make circles with all narrow width tapes. Adjustable to various sizes, it also makes half-circles and arcs.

Additional beam sections (9-3/4") may be attached to the holder for larger circles.

Cat. No. 328 (2" to 18" diameter circles) **\$9.50**

Cat. No. 328E

(9-3/4" individual beam section with screw) **\$2.00**

ADJUSTABLE "TAPE-PEN"

The Chart-Pak Adjustable "Tape-Pen" is another useful instrument for people involved in making visual presentations. This plastic pen is used to apply several parallel lines at the same time or a combination of wide lines and "shroud lines."

Any combination of Chart-Pak Tapes aggregating 1/16", 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", or 5/8" can be used. Space bars with movable guides facilitate easy adjustment.

Cat. No. 325..... **Price \$4.50**



PRECISION "TAPE-PEN"

The Chart-Pak "Tape-Pen" is designed for draftsmen, engineers, architects, layout men, technical illustrators, cartographers, commercial artists, as well as chart and graph makers.

This precision-engineered drawing instrument "rolls on" straight lines and curves quickly and easily. Just guide the pen along a straight edge, French curve or any geometric pattern. Or use it free-hand. Either way, accurate and uniform lines are assured.

The "Tape-Pen" is especially designed for "Chart-Pak "Curve-Line" and narrow width tapes. It's easy to load, easy to operate. Side slot shows tape color and supply. Pens are color-keyed according to size for easy identification.

Cat. No.	(Tape Width)	Color Key	Price
320	1/16"	Gold	\$6.95*
321	1/32"	Green	\$6.95*
322	1/8"	Red	\$6.95*
323	1/4"	Blue	\$8.50
326	1/64"	Copper	\$6.95*
330	3/32"	Pink	\$6.95*
331	3/16"	Orange	\$6.95*

*Set of any two in these sizes \$13.00.

TRANS-PAK

Pressure-Sensitive Die Cut Symbols for Drafting and Visual Communications

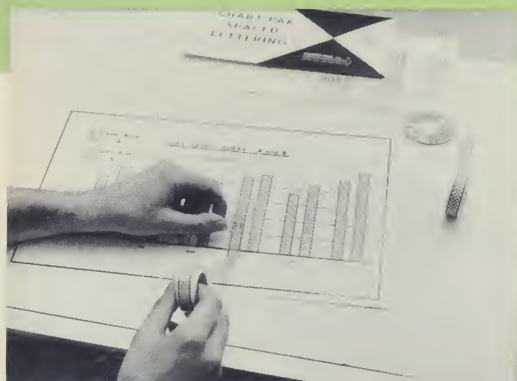
Trans-Pak pressure-sensitive die cut symbols are used for drafting, technical illustrations, charts and graphs, cartography, PERT programming, lithography, art work and other forms of visual communication.

Trans-Pak offers a new, patented method for the application of pressure-sensitive die cut symbols. Just position, press and peel any one of a multitude of Trans-Pak symbols. Eliminate repetitive drawing. Save time by using the fast, accurate, distortion-free Trans-Pak method. Trans-Pak symbols reproduce crisp and clear through the diazo and/or photographic process.

Trans-Pak symbols combine readily with other Chart-Pak components. May be reproduced by diazo and/or photographic processes. Symbols are available in many sizes, five base materials and 16 colors. Letters and numbers are also available. And there is **NO DIE CHARGE** for special symbols.



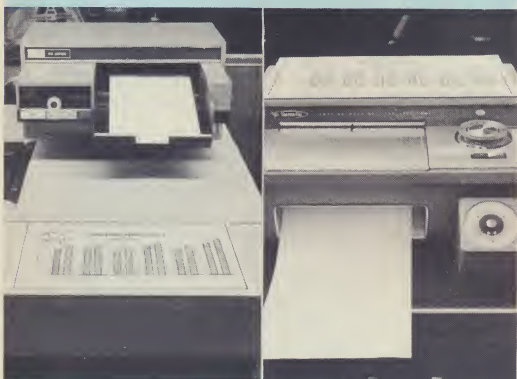
Ask your dealer or write to Chart-Pak
for the new Trans-Pak catalog.



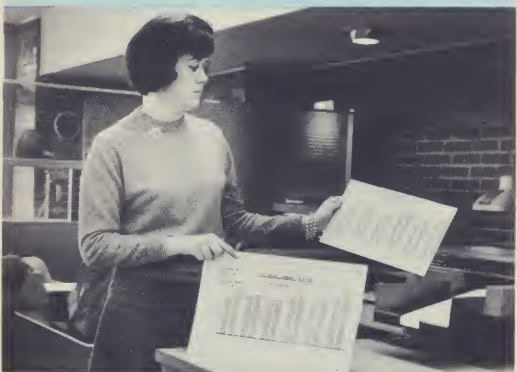
1. From preparation.



2. To direct presentation.



3. To the making of copies.



4. Chart-Pak pre-printed tapes are used effectively for making statistical charts, graphs, visual presentations. Perfect masters — perfect copies consistently with Chart-Pak pressure-sensitive tapes and components.

Statistical, Reference and Special Symbol Tapes

Opaque and Transparent Tape

A variety of more than 50 statistical, reference and special symbol tapes are available to draftsmen, engineers, architects, commercial artists, and chart, graph and map makers. Just roll out the desired symbol, and press it down. Symbols are consistently sharp, accurate and uniform. Tapes eliminate tedious repetitive drawing.

These tapes are Chart-Pak's dual layer tapes. The symbols are printed on transparent tape with opaque black ink and then laminated with a thin clear transparent tape to protect the printing.

All Chart-Pak Tapes are backed with a pressure-sensitive, heat-resistant adhesive. Tapes adhere easily, quickly. Stay down until you remove them. Lift off cleanly. Won't shrink, peel or fade. Perfect for diazo reproduction and overhead projectors. (Use opaque tapes for photographic or office copy machine reproduction processes.)

Symbol Tapes for direct presentation, reproduction or projection

- Charts & Graphs
- Maps & Diagrams
- Plant & Office Layouts
- Floor Plans
- Commercial Artwork
- Technical Illustrations

See page 12 for standard pattern tapes, page 26 for additional plant and office layout tapes, page 22 for border tapes.

TAPE TIP: When working with pressure-sensitive tape, the end of the tape, when not in use, should be folded under for easy starting.

To order special printed tapes see page 38.

STATISTICAL, REFERENCE AND SPECIAL SYMBOL TAPES

Statistical tapes

	101 (opaque)..... 1/4" x 324"..... \$1.25/rl. TL243A 1/4" x 324"..... \$1.25/rl.
	104 (opaque)..... 1/4" x 324"..... \$1.25/rl. TL244A 1/4" x 324"..... \$1.25/rl.
	TL240A 1/4" x 324"..... \$1.25/rl.
	TL241A 1/4" x 324"..... \$1.25/rl.
	102 (opaque)..... 1/4" x 324"..... \$1.25/rl. TL245A 1/4" x 324"..... \$1.25/rl.
	103 (opaque)..... 1/4" x 324"..... \$1.25/rl. TL247AA 1/4" x 324"..... \$1.25/rl.
	105 (opaque)..... 1/4" x 324"..... \$1.25/rl. TL248A 1/4" x 324"..... \$1.25/rl.
	*TL242AA Black 1/4" x 324"..... \$1.25/rl. Also available in Red (B), Blue (C), Green (D), and Orange (E)
	TL249A 1/4" x 324"..... \$1.25/rl.
	TL250A 1/4" x 324"..... \$1.25/rl.
	TL250C 1/2" x 324"..... \$1.45/rl.
	TL250D 5/8" x 324"..... \$1.55/rl.
	205 (opaque)..... 5/8" x 324"..... \$1.55/rl. 205T 5/8" x 324"..... \$1.55/rl.
	206 (opaque)..... 5/8" x 324"..... \$1.55/rl. 206T 5/8" x 324"..... \$1.55/rl.
	207 (opaque)..... 5/8" x 324"..... \$1.55/rl. 207T 5/8" x 324"..... \$1.55/rl.
	208 (opaque)..... 5/8" x 324"..... \$1.55/rl. 208T 5/8" x 324"..... \$1.55/rl.
	209 (opaque)..... 5/8" x 324"..... \$1.55/rl. 209T 5/8" x 324"..... \$1.55/rl.

Patterns Illustrated Are Actual Size.

T or TL in catalog number indicates transparent tape.

		256
		257
		258
		259

† With shroud lines

* Without shroud lines

No. 256 Pattern Illustrated Above

† 256 (opaque)	3/8" x 324"	\$1.35/rl.
† 256T	3/8" x 324"	\$1.35/rl.
* 256A (opaque)	1/4" x 324"	\$1.25/rl.
* 256TA	1/4" x 324"	\$1.25/rl.
* 256AA (opaque)	1/8" x 324"	\$1.00/rl.
* 256TAA	1/8" x 324"	\$1.00/rl.
* 256B (opaque)	3/8" x 324"	\$1.35/rl.
* 256TB	3/8" x 324"	\$1.35/rl.
* 256C (opaque)	1/2" x 324"	\$1.45/rl.
* 256TC	1/2" x 324"	\$1.45/rl.

No. 257 Pattern Illustrated Above

† 257 (opaque)	3/8" x 324"	\$1.35/rl.
† 257T	3/8" x 324"	\$1.35/rl.
* 257A	1/4" x 324"	\$1.25/rl.
* 257TA	1/4" x 324"	\$1.25/rl.
* 257AA (opaque)	1/8" x 324"	\$1.00/rl.
* 257TAA	1/8" x 324"	\$1.00/rl.
* 257B (opaque)	3/8" x 324"	\$1.35/rl.
* 257TB	3/8" x 324"	\$1.35/rl.
* 257C (opaque)	1/2" x 324"	\$1.45/rl.
* 257TC	1/2" x 324"	\$1.45/rl.

No. 258 Pattern Illustrated Above

† 258 (opaque)	3/8" x 324"	\$1.35/rl.
† 258T	3/8" x 324"	\$1.35/rl.
* 258A (opaque)	1/4" x 324"	\$1.25/rl.
* 258TA	1/4" x 324"	\$1.25/rl.
* 258AA (opaque)	1/8" x 324"	\$1.00/rl.
* 258TAA	1/8" x 324"	\$1.00/rl.
* 258B (opaque)	3/8" x 324"	\$1.35/rl.
* 258TB	3/8" x 324"	\$1.35/rl.
* 258C (opaque)	1/2" x 324"	\$1.45/rl.
* 258TC	1/2" x 324"	\$1.45/rl.


























No. 259 Pattern Illustrated Above

† 259 (opaque)	3/8" x 324"	\$1.35/rl.
† 259T	3/8" x 324"	\$1.35/rl.
* 259A (opaque)	1/4" x 324"	\$1.25/rl.
* 259TA	1/4" x 324"	\$1.25/rl.
* 259B (opaque)	3/8" x 324"	\$1.35/rl.
* 259TB	3/8" x 324"	\$1.35/rl.
* 259C (opaque)	1/2" x 324"	\$1.45/rl.
* 259TC	1/2" x 324"	\$1.45/rl.
* 259TG	1" x 324"	\$1.95/rl.

















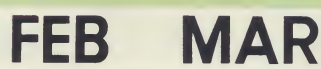

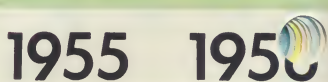
SPECIFY CATALOG NUMBER, COLOR
(WHEN AVAILABLE) AND
QUANTITY WHEN ORDERING.

(Continued)

Reference and Special Symbol Tapes

	TL381A.....1/4" x 324".....\$1.25/rl.
 	TL405E (consecutive letters A to J) 3/4" x 324".....\$1.70/rl. TL406E (consecutive letters K to T) 3/4" x 324".....\$1.70/rl. TL407E (consecutive letters U to Z) 3/4" x 324".....\$1.70/rl.
 	TL409F.....7/8" x 324".....\$1.85/rl. (register marks)
 	TL410.....5/8" (illus.).....\$1.55/rl. (register marks)
 	TL411.....5/8" (illus.).....\$1.55/rl. (open center register marks)
   	TL420A (illus.).....1/4" x 324".....\$1.25/rl.
   	TL421A (illus.).....1/4" x 324".....\$1.25/rl. TL422A (illus.).....1/4" x 324".....\$1.25/rl. TL423A #3.....1/4" x 324".....\$1.25/rl. TL424A #4.....1/4" x 324".....\$1.25/rl. TL425A #5.....1/4" x 324".....\$1.25/rl. TL426A #6.....1/4" x 324".....\$1.25/rl. TL427A #7.....1/4" x 324".....\$1.25/rl. TL428A #8.....1/4" x 324".....\$1.25/rl. TL429A (illus.).....1/4" x 324".....\$1.25/rl.
	TL430A.....1/4" x 324".....\$1.25/rl.
	TL431A.....1/4" x 324".....\$1.25/rl.
	TL432A.....1/4" x 324".....\$1.25/rl.
	TL433A.....1/4" x 324".....\$1.25/rl.
	TL434A.....1/4" x 324".....\$1.25/rl.
	TL435A.....1/4" x 324".....\$1.25/rl.
 	TL436A (anti-aircraft symbol) 1/4" x 324".....\$1.25/rl.

Patterns Illustrated Are Actual Size
T or TL in catalog number indicates transparent tape.

TL437A (naval vessel symbol) 1/4" x 324".....\$1.25/rl.	 
TL438A (jet aircraft symbol) 1/4" x 324".....\$1.25/rl.	 
TL439A (missile symbol) 1/4" x 324".....\$1.25/rl.	 
TL440A (radar symbol) 1/4" x 324".....\$1.25/rl.	  
212 (opaque) 0-100 3/8" x 324".....\$1.35/rl.	  
212T 0-100.....3/8" x 324".....\$1.35/rl.	
213 (opaque) 0-100 5/8" x 324".....\$1.55/rl.	  
213T 0-100.....5/8" x 324".....\$1.55/rl.	
214 (opaque) Jan.-Dec. 1/4" x 324".....\$1.25/rl.	
214T Jan.-Dec.....1/4" x 324".....\$1.25/rl.	
215 (opaque) Jan.-Dec. 3/8" x 324".....\$1.35/rl.	
215T Jan.-Dec.....3/8" x 324".....\$1.35/rl.	
216 (opaque) 1955-1966 1/4" x 324".....\$1.25/rl.	
216T 1955-1966.....1/4" x 324".....\$1.25/rl.	
217 (opaque) 1955-1966 3/8" x 324".....\$1.35/rl.	
217T 1955-1966.....3/8" x 324".....\$1.35/rl.	

SECRET

This document contains information affecting the national defense of the United States, within the meaning of the Espionage Laws, Title 18, U.S.C., Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

TL441E Black.....3/4" x 324".....\$1.70/rl.
TL441E Red.....3/4" x 324".....\$1.70/rl.

CONFIDENTIAL

This document contains information affecting the national defense of the United States, within the meaning of the Espionage Laws, Title 18, U.S.C., Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

TL442E Black.....3/4" x 324".....\$1.70/rl.
TL442E Red.....3/4" x 324".....\$1.70/rl.

TL441A Black.....1/4" x 324".....\$1.25/rl.
TL441A Red.....1/4" x 324".....\$1.25/rl.

SECRET SECRET

TL442A Black.....1/4" x 324".....\$1.25/rl.
TL442A Red.....1/4" x 324".....\$1.25/rl.

CONFIDENTIAL

TL401E (Consecutive nos. 1 to 10)
TL402E (Consecutive nos. 11 to 20)
TL403E (Consecutive nos. 21 to 30)
TL403 1/2 E (Consecutive nos. 31 to 40)
TL404E (Consecutive nos. 41 to 50)
3/4" x 324".....\$1.70/rl.





SPECIFY CATALOG NUMBER, COLOR
(WHEN AVAILABLE) AND
QUANTITY WHEN ORDERING.

Pictorial Symbols

SPECIFY CATALOG NUMBER, FINISH AND QUANTITY WHEN ORDERING.

Example: When ordering "ship" symbol in transparent finish, order S43T and the number of sheets needed.

T = Transparent O = Opaque
If "O" or "T" are not specified, "O" will be shipped.

**Opaque White Ledger Paper —
Translucent Plastic Film — Matte Finish**

"Picto-Pak", copyrighted symbols developed by the Pictograph Corporation, are used by chart, graph and map maker, teachers, training personnel and people in the audio-visual field.

Statistical facts are presented symbolically in charts and graphs when attention and interest must be attracted. "Picto-Pak" contains a variety of typically representative symbols that combine readily with all Chart-Pak pressure-sensitive products.

Symbols are printed in opaque black ink in groups of three sizes — 1-1/4", 3/4", and 1/2" high — on 8-1/2" x 11" sheets of opaque white ledger paper or clear transparent plastic film. Both sheets have a writeable finish. Takes typing or writing. Sheets are backed with a pressure-sensitive, heat-resistant adhesive.

Opaque for direct presentations and photographic reproduction. *Transparent* for overlays, slides, transparencies and diazo reproduction.

- Teaching & Training Aids
- Displays & Exhibits
- Signs & Show Cards
- Charts & Graphs
- Maps

Prices: \$1.00 per single sheet

\$8.40 doz. assorted sheets

For special symbols, printed to order, see page 38.



S12



S70



S13



S71



S16



S18



S72



S25



S60



S26



S63



S27



S29



S34



S39



S43



S45



S51



S28



S31



S35



S42



S44



S46



S52



S55



S58



S56



S59



S37



S38



S64



S47



S65



S67



S48



S50



S54



S61



S66



S57



S69



S49



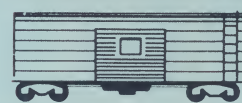
S53



S62



S41



S40

for Making Printed Circuit Masters

Black Crepe & White Back Tapes

Chart-Pak Crepe Paper and White Back Tapes are effectively used by printed circuit draftsmen and technical illustrators. The tapes are backed with a pressure-sensitive, heat-resistant adhesive. Adhere easily, quickly. Won't shrink, peel or discolor. Stay down until you remove them. Lift off cleanly.

Conductor paths are taped down quickly and accurately. Hours of tedious inking are eliminated. Chart-Pak's precision-slit tapes assure uniformity in even the narrowest widths.

Black Crepe Paper Circuit Tape

(Precision-slit to plus or minus .002") *New length — no increase in price

The completely opaque, non-reflective surface makes Black Crepe Paper Tape ideal for master artwork of printed circuit drawings. Photographic or diazo reproductions come through crisp and clear. The tape may be used directly on the copper plate as resist or for diazo or photographic reproduction on any standard base drawing material — tracing paper, acetate, Mylar*, Cronar*. And Crepe Paper Tapes curve easily — with little distortion.

*DuPont Registered Trade Mark

TAPE TIP: Use Chart-Pak's Tape Pen to facilitate perfect positioning of narrow-width tapes.

SPECIFY CATALOG NUMBER AND QUANTITY WHEN ORDERING

Example: When ordering 1/4" Black Crepe Paper Tape, order CP2051 and the number of rolls needed.

A NEW METHOD . . . for the application of pressure sensitive printed circuit die cut symbols. The TRANS-PAK method assures Fast, Accurate, and Distortion-free die cut symbol placement. The added value of a NO DIE CHARGE policy for special die cut symbols, makes this catalog the most complete printed circuit die cut catalog available anywhere.

TRANS-PAK — PRINTED CIRCUIT SYMBOLS Position, press and peel any one of Chart-Pak's many special Trans-Pak die-cut symbols — circles with center holes, teardrops with vanishing point, teardrops, ovals, fillets, T-connectors and elbows. Available in translucent ruby red and opaque black crepe. See your dealer or write to Chart-Pak for a Trans-Pak Printed Circuit Catalog.

Roll Size	Cat. No.	Price
2" x 324"	CP2-1	\$2.15/rl.
1" x 324"	CP1-1	\$1.25/rl.
1/2" x 324"	CP5001	\$1.00/rl.
3/8" x 324"	CP3751	\$1.00/rl.
* 1/4" x 648"	CP2501	\$.90/rl.
* 3/16" x 648"	CP1871	\$.90/rl.
* 1/8" x 648"	CP1251	\$.80/rl.
3/32" x 648"	CP9301	\$.80/rl. or \$3.50/pkg. 5 rls.
1/16" x 648"	CP6201	\$.80/rl. or \$3.50/pkg. 5 rls.
1/32" x 648"	CP3101	\$.80/rl. or \$3.50/pkg. 5 rls.
1/64" x 648"	CP1501	\$.80/rl. \$3.50/pkg. 5 rls.
* .100" x 648"	CP1001	\$.80/rl.
* .150" x 648"	CP15001	\$.90/rl.
* .200" x 648"	CP2001	\$.90/rl.
.300" x 324"	CP3001	\$1.00/rl.

*NOTE: increased length of roll, no increase in price

SPECIAL COLORS: Crepe paper tape is available in red, blue, yellow, green and white on minimum orders of ten rolls per color. Prices same as for standard black crepe paper widths. Specify width, color and quantity when ordering.

Crepe Paper Tape Available in 5 Colors



Uniformity In Lines And Symbols — Chart-Pak's precision-slit tapes and Trans-Pak die-cut symbols assure accuracy and uniformity in the finest detail work. Quick application eliminates tedious drawing.

White Back Circuit Tape

(Precision-slit to plus or minus .002")

Chart-Pak White Back Circuit Tape offers three plus factors for back-to-back printed circuit layouts: **1.** Surface is non-reflective dull black. **2.** Reverse is opaque white with a pressure-sensitive clear adhesive backing. **3.** For perfect register of two layouts, the white is completely visible through Translucent Precision Grids. Yet it disappears when photographed against a white background. Trans-Pak White Back die cut symbols are also available.

Roll Size	Cat. No.	Price
2" x 324"	2-30	\$3.50/rl.
1" x 324"	1-30	\$1.95/rl.
1/2" x 324"	5030	\$1.45/rl.
1/4" x 324"	2530	\$1.25/rl.
1/8" x 324"	12530	\$1.00/rl.
1/16" x 648"	6230	\$.80/rl. or \$3.50/pkg. 5 rls.
1/32" x 648"	3130	\$.80/rl. or \$3.50/pkg. 5 rls.
1/64" x 648"	1530	\$.80/rl. or \$3.50/pkg. 5 rls.
.100" x 324"	1030	\$1.00/rl.
.150" x 324"	15030	\$1.25/rl.
.200" x 324"	2030	\$1.25/rl.
.300" x 324"	3030	\$1.45/rl.

SPECIFY CATALOG NUMBER AND QUANTITY WHEN ORDERING
Example: When ordering 1" White Back Tape, order 1-30 and the number of rolls needed.

Ruby Red Paklon* Circuit Tape

Excellent for making corrections if the "cut and strip" method is used. Adhesive backing is pressure-sensitive and heat-resistant. Tape is translucent maroon — ideal for photographic reproduction because it is photographically opaque.

*3M Registered Trade Mark

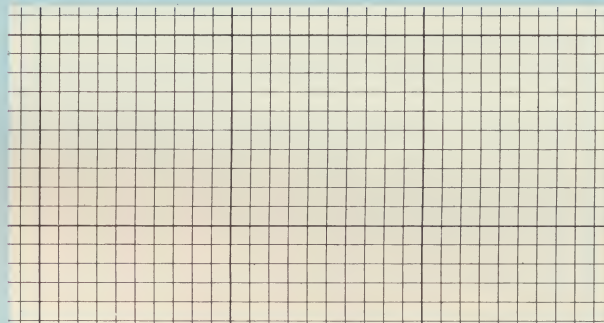
CAT. NO.	ROLL SIZE	PRICE
1-31	1" x 324"	\$1.25/rl.
5031	1/2" x 324"	\$1.00/rl.
2531	1/4" x 324"	\$.90/rl.
12531	1/8" x 324"	\$.80/rl.
6231	1/16" x 648"	\$3.50/pkg. 5 rls.
3131	1/32" x 324"	\$3.50/pkg. 5 rls.
G 6-31	.083" x 324"	\$.80/rl.
G 12-31	.166" x 324"	\$.90/rl.

SPECIFY CATALOG NUMBER AND QUANTITY WHEN ORDERING
Example: When ordering 1/8" Ruby Red Paklon Tape, order 12531 and the number of rolls needed.

Translucent Precision Grids

Mylar* Matte Finish

Specifically designed as a base for master drawings in printed circuitry, or wherever accuracy and dimensional stability is critical. Grids are printed in black or non-reproducible blue, on matte finish MYLAR*, .0075" thick. Guaranteed accurate to plus or minus .005".



Cat. No. PG-10 21" x 31" Printed area 20" x 30", 10 units per inch. Each 10th line is accented.

1 — 49 sheets — \$12.50 each
50 sheets or over — \$10.00 each

Cat. No. PG-8 21" x 31" Printed area 20" x 30", 8 units per inch. Each 8th line is accented.

1 — 49 sheets — \$12.50 each
50 sheets or over — \$10.00 each

Cat. No. PG-10L 31" x 41" Printed area 30" x 40", 10 units per inch. Each 10th line is accented.

In blue only — \$20.00 each

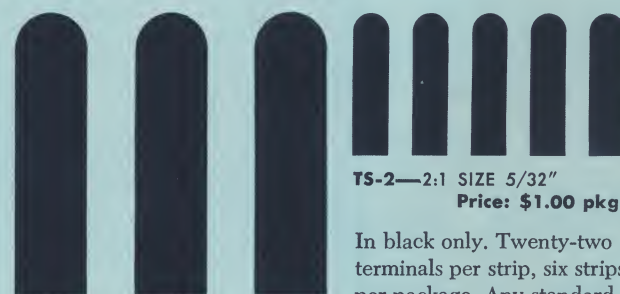
*DuPont — Registered Trade Mark

Terminal Connector Strips

Mylar* Matte Finish

Saves valuable time by eliminating repetitive drawing. Terminal connectors are accurately spaced for use with standard edgeboard sockets. Pressure-sensitive adhesive backing adheres quickly, easily.

*DuPont Registered Trademark



TS-1—4:1 SIZE 5/32"

Price: \$1.00 pkg.

TS-2—2:1 SIZE 5/32"

Price: \$1.00 pkg.

In black only. Twenty-two terminals per strip, six strips per package. Any standard terminal connector strip is available upon request.

SPECIFY CATALOG NUMBER AND QUANTITY WHEN ORDERING

■ Newspaper & Decorative Border Tapes

■ 1/64" Pattern Tapes

■ Blockout Tapes

■ Pattern Blockout Tapes

■ Special Point Size Tapes

Chart-Pak Graphic Arts Tapes are used primarily by commercial artists in publishing houses, advertising agencies and advertising departments; graphic designers; lithographers and engravers. Decorative Border Tapes are also used by technical illustrators, draftsmen, chart, graph and map makers.

Modern printing processes, such as photo lithography, offset or photo composition, are efficient printing production methods used by commercial printers, newspapers, magazine and book publishers. Chart-Pak Graphic Arts Tapes save additional time and costs in the preparation of material — from the initial layout to finished art work to negatives for plates — prior to press time.

Meet all deadlines. Just press down Chart-Pak Tapes. Pressure-sensitive, heat resistant adhesive backing sticks easily, quickly. Tapes stay down until you remove them. May be lifted and repositioned. Won't shrink, peel or fade. Assure sharp, clean photographs and diazo reproduction.

Quick Borders For Rush Jobs —

Difficult grocery ads and other retail ads in the Quincy Patriot Ledger (Quincy, Massachusetts) are a cinch with Chart-Pak Border Tapes. Problems with boxes, fill-in rules and outside borders are solved in plenty of time to meet deadlines.



True Photo Reproduction — To assure crisp, clear photographic reproduction, Chart-Pak Newspaper and Decorative Border Tapes are printed in opaque black. For even sharper reproduction, edge overlap is kept at a minimum.

Newspaper & Decorative Border Tapes

Transparent & Opaque Tape

Chart-Pak Newspaper and Decorative Border Tapes are available in more than 50 distinctive patterns developed in co-operation with the American Newspapers Publishers Association.

Chart-Pak Border Tapes eliminate wasted steps in the preparation of art work for printed media. Eliminate repetitive drawing, hot composition and proofs, cutting and pasting. Simply roll out pressure-sensitive tapes and press down borders, rules, design elements.

Patterns are printed in opaque black. Opacity assures true photo reproduction. Minimum edge overlap for even sharper reproduction. Chart-Pak's special dual layer laminating process protects the printed patterns permanently. Patterns are printed on clear transparent or white opaque tapes.

Newspaper & Decorative Border Tapes for photographic and diazo reproduction, direct presentations

- Advertisements
- Direct Mail Pieces
- Sales Promotion Pieces
- House Organs
- Displays
- Graphic Designs
- Technical Illustrations
- Charts, Graphs, Maps

TAPE TIP: When working with pressure-sensitive tape, the end of the tape, when not in use, should be folded under for easy starting.

Tapes available in black only

1/64" PATTERN TAPES

Opaque and Transparent

Chart-Pak 1/64" Pattern Tapes are used for narrow borders, rules and frames. Ten patterns are available on either opaque or transparent tape, in black or in color. See page 13 for detailed description and ordering information.

1520	\$3.50/pkg. 5 rls.
1521	\$3.50/pkg. 5 rls.
1522	\$3.50/pkg. 5 rls.
1523	\$3.50/pkg. 5 rls.
1524	\$3.50/pkg. 5 rls.
1525	\$3.50/pkg. 5 rls.
1526	\$3.50/pkg. 5 rls.
1527	\$3.50/pkg. 5 rls.
1528	\$3.50/pkg. 5 rls.
1529	\$3.50/pkg. 5 rls.

Newspaper Border Tapes in 1/8" Width

T or TL in catalog number indicates transparent tape

TL 802AA 1/8" x 324"/\$1.25 rl.
802AA (opaque) 1/8" x 324"/\$1.25 rl.

TL 812AA 1/8" x 324"/\$1.25 rl.
812AA (opaque) 1/8" x 324"/\$1.25 rl.

TL 814AA 1/8" x 324"/\$1.25 rl.
814AA (opaque) 1/8" x 324"/\$1.25 rl.

TL 826AA 1/8" x 324"/\$1.25 rl.
826AA (opaque) 1/8" x 324"/\$1.25 rl.

TL 831AA 1/8" x 324"/\$1.25 rl.
831AA (opaque) 1/8" x 324"/\$1.25 rl.

TL 833AA 1/8" x 324"/\$1.25 rl.
833AA (opaque) 1/8" x 324"/\$1.25 rl.

TL 835AA 1/8" x 324"/\$1.25 rl.
835AA (opaque) 1/8" x 324"/\$1.25 rl.

TL 838AA 1/8" x 324"/\$1.25 rl.
838AA (opaque) 1/8" x 324"/\$1.25 rl.

TL 839AA 1/8" x 324"/\$1.25 rl.
839AA (opaque) 1/8" x 324"/\$1.25 rl.

TL 840AA 1/8" x 324"/\$1.25 rl.
840AA (opaque) 1/8" x 324"/\$1.25 rl.

TL 841AA 1/8" x 324"/\$1.25 rl.
841AA (opaque) 1/8" x 324"/\$1.25 rl.

TL 842AA 1/8" x 324"/\$1.25 rl.
842AA (opaque) 1/8" x 324"/\$1.25 rl.

TL 844AA 1/8" x 324"/\$1.25 rl.
844AA (opaque) 1/8" x 324"/\$1.25 rl.

TL 848AA 1/8" x 324"/\$1.25 rl.
848AA (opaque) 1/8" x 324"/\$1.25 rl.

TL 850AA 1/8" x 324"/\$1.25 rl.
850AA (opaque) 1/8" x 324"/\$1.25 rl.

TL 862AA 1/8" x 324"/\$1.25 rl.
862AA (opaque) 1/8" x 324"/\$1.25 rl.

TL 863AA 1/8" x 324"/\$1.25 rl.
863AA (opaque) 1/8" x 324"/\$1.25 rl.

TL 865AA 1/8" x 324"/\$1.25 rl.
865AA (opaque) 1/8" x 324"/\$1.25 rl.

TL 869AA 1/8" x 324"/\$1.25 rl.
869AA (opaque) 1/8" x 324"/\$1.25 rl.

TL 870AA 1/8" x 324"/\$1.25 rl.
870AA (opaque) 1/8" x 324"/\$1.25 rl.

867AA Available 1/8" x 324"/\$1.00 rl.
in opaque only

Newspaper Border Tapes in 1/4" Width

Chart-Pak Border Tapes come in 56 patterns for simplifying cold-composing for offset printing.

TL 801A 1/4" x 324"/\$1.25 rl.
801A (opaque) 1/4" x 324"/\$1.25 rl.

TL 803A 1/4" x 324"/\$1.25 rl.
803A (opaque) 1/4" x 324"/\$1.25 rl.

TL 804A 1/4" x 324"/\$1.25 rl.
804A (opaque) 1/4" x 324"/\$1.25 rl.

TL 805A 1/4" x 324"/\$1.25 rl.
805A (opaque) 1/4" x 324"/\$1.25 rl.

TL 806A 1/4" x 324"/\$1.25 rl.
806A (opaque) 1/4" x 324"/\$1.25 rl.

TL 808A 1/4" x 324"/\$1.25 rl.
808A (opaque) 1/4" x 324"/\$1.25 rl.

TL 809A 1/4" x 324"/\$1.25 rl.
809A (opaque) 1/4" x 324"/\$1.25 rl.

TL 810A 1/4" x 324"/\$1.25 rl.
810A (opaque) 1/4" x 324"/\$1.25 rl.

TL 811A 1/4" x 324"/\$1.25 rl.
811A (opaque) 1/4" x 324"/\$1.25 rl.

TL 813A 1/4" x 324"/\$1.25 rl.
813A (opaque) 1/4" x 324"/\$1.25 rl.

TL 825A 1/4" x 324"/\$1.25 rl.
825A (opaque) 1/4" x 324"/\$1.25 rl.

TL 827A 1/4" x 324"/\$1.25 rl.
827A (opaque) 1/4" x 324"/\$1.25 rl.

TL 828A 1/4" x 324"/\$1.25 rl.
828A (opaque) 1/4" x 324"/\$1.25 rl.

TL 866A 1/4" x 324"/\$1.35 rl.
866A (opaque) 1/4" x 324"/\$1.35 rl.

TL 830A 1/4" x 324"/\$1.25 rl.
830A (opaque) 1/4" x 324"/\$1.25 rl.

TL 834A 1/4" x 324"/\$1.25 rl.
834A (opaque) 1/4" x 324"/\$1.25 rl.

TL 836A 1/4" x 324"/\$1.25 rl.
836A (opaque) 1/4" x 324"/\$1.25 rl.

TL 837A 1/4" x 324"/\$1.25 rl.
837A (opaque) 1/4" x 324"/\$1.25 rl.

TL 843A 1/4" x 324"/\$1.25 rl.
843A (opaque) 1/4" x 324"/\$1.25 rl.

TL 845A 1/4" x 324"/\$1.25 rl.
845A (opaque) 1/4" x 324"/\$1.25 rl.

TL 846A 1/4" x 324"/\$1.25 rl.
846A (opaque) 1/4" x 324"/\$1.25 rl.

TL 849A 1/4" x 324"/\$1.25 rl.
849A (opaque) 1/4" x 324"/\$1.25 rl.

TL 851A 1/4" x 324"/\$1.25 rl.
851A (opaque) 1/4" x 324"/\$1.25 rl.

TL 852A 1/4" x 324"/\$1.25 rl.
852A (opaque) 1/4" x 324"/\$1.25 rl.

TL 853A 1/4" x 324"/\$1.25 rl.
853A (opaque) 1/4" x 324"/\$1.25 rl.

TL 854A 1/4" x 324"/\$1.25 rl.
854A (opaque) 1/4" x 324"/\$1.25 rl.

TL 855A 1/4" x 324"/\$1.25 rl.
855A (opaque) 1/4" x 324"/\$1.25 rl.

TL 856A 1/4" x 324"/\$1.25 rl.
856A (opaque) 1/4" x 324"/\$1.25 rl.

TL 857A 1/4" x 324"/\$1.25 rl.
857A (opaque) 1/4" x 324"/\$1.25 rl.

TL 858A 1/4" x 324"/\$1.25 rl.
858A (opaque) 1/4" x 324"/\$1.25 rl.

TL 859A 1/4" x 324"/\$1.25 rl.
859A (opaque) 1/4" x 324"/\$1.25 rl.

TL 860A 1/4" x 324"/\$1.25 rl.
860A (opaque) 1/4" x 324"/\$1.25 rl.

TL 861A 1/4" x 324"/\$1.25 rl.
861A (opaque) 1/4" x 324"/\$1.25 rl.

TL 864A 1/4" x 324"/\$1.25 rl.
864A (opaque) 1/4" x 324"/\$1.25 rl.

TL 829B 3/8" x 324"/\$1.25 rl.
829B (opaque) 3/8" x 324"/\$1.25 rl.

Patterns Illustrated
Are Actual Size

SPECIFY CATALOG NUMBER AND QUANTITY WHEN ORDERING.

Special Point Size Tape

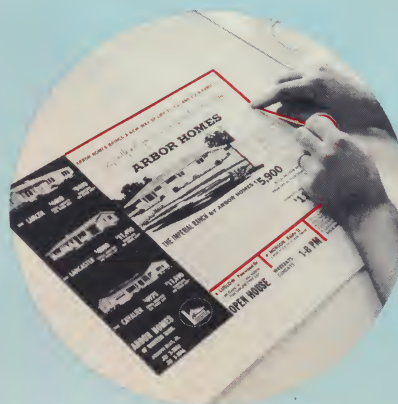
Precision-Slit

Special Chart-Pak Tapes, precision-slit to newspaper type point sizes, are used for accurate narrow borders, column lines and rules in cold type composition and commercial art work.

Chart-Pak will also slit any standard pattern tape (pages 12, 13) into 6 point or 12 point widths for newspaper layout work. A minimum order of 10 rolls of each desired width is required.

Available in black only

Cat. No. Black	Pt. Size	Dec. Equiv.	Length of Roll	Price
G2	2	.0277"	648"	\$.80/rl. or 3.50/pkg. 5 rls.
G3	3	.0415"	648"	\$.80/rl. or 3.50/pkg. 5 rls.
G4	4	.0552"	648"	\$.80/rl. or 3.50/pkg. 5 rls.
G6	6	.083"	324"	\$.80/rl.
G12	12	.166"	324"	\$.90/rl.



Perfect Register Of Rules — Mitered corners for borders and frames always meet. Down rules and cross rules line up. And all lines are consistently uniform when made with Chart-Pak precision-slit Point Size Tape.

	No. G2 2 pt.
	No. G3 3 pt
	No. G4 4 pt.
	No. G6 6 pt.
	No. G12 12 pt.

SPECIFY CATALOG NUMBER AND QUANTITY WHEN ORDERING

Ben Day Pattern Tape

Transparent & Opaque Finish

Developed especially for newspaper cold type composition, Ben Day Pattern Tapes also save valuable time in the preparation of shading, tints and screens in all art work for photo reproduction. Ben Day Tapes eliminate stripping and cutting problems of previous pre-printed Ben Day Sheets.

Available in black

Catalog No.	Point Size	Dec. Equiv.	Price
G 6 K (opaque)	6 pt. x 324"	.083	\$.80/rl.
G 6 K T	6 pt. x 324"	.083	\$.80/rl.
G12 K (opaque)	12 pt. x 324"	.166	\$.90/rl.
G12 K T	12 pt. x 324"	.166	\$.90/rl.



Time-Saving Ben Day Tapes — None of the measuring, stripping and cutting problems encountered in Ben Day Sheets. Chart-Pak Ben Day Tapes come in point sizes — especially for newspaper work.

	No. G6K 6 pt.
	No. G12K 12 pt.

SPECIFY CATALOG NUMBER AND QUANTITY WHEN ORDERING

Standard Blockout Tape**Translucent**

Excellent for "block out" work in setting up negatives for printing of forms. Also for opaquing, stripping or edging negatives in photographic labs. Available in six standard widths and two type point sizes: 6 point (.083") and 12 point (.166"). Tapes are maroon. Translucency makes them ideal as an additional color in overhead projectuals.



No. 1-311" x 324".....\$1.25/rl.



No. 50311/2" x 324".....\$1.00/rl.



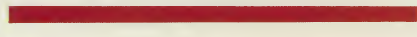
No. 25311/4" x 324".....\$.90/rl.



No. G12-31166 x 324".....\$.90/rl.



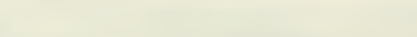
No. 125311/8" x 324".....\$.80/rl.



No. G6-31083 x 324".....\$.80/rl.



No. 62311/16" x 648".....\$3.50/pkg. 5 rls.



No. 31311/32" x 324".....\$3.50/pkg. 5 rls.

Pattern Blockout Tape**Transparent**

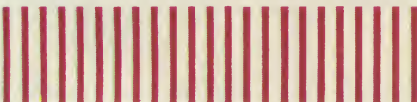
Chart-Pak Pattern Blockout Tape provides an accurate broken line for the printing of forms.



No. TL868AA1/8" x 324".....\$1.00/rl.



No. TL868A1/4" x 324".....\$1.25/rl.



No. TL868C1/2" x 324".....\$1.45/rl.

SPECIFY CATALOG NUMBER AND QUANTITY WHEN ORDERING

Contak Shading Films & Color Tints

Contak Shading Films and Color Tints are ideal for commercial artists, illustrators, graphic designers, architects, draftsmen, chart, graph and map makers.

Contak Shading Films provide perfect shaded effects, screens and patterns in large areas of line drawings for photo or diazo reproduction. More than 72 patterns are available in black and color on transparent and matte Mylar® film. Sheets are 9" x 12".

Contak Color Tints add color to layouts, finished art work, overlays, slides and projectuals. Twenty-seven permanent transparent colors are available on 9" x 12" and 14" x 19" sheets of Mylar® film.

**DuPont Registered Trademark*

See your dealer
or write to Chart-Pak
for a Contak catalog.



Attractive Contak Illustrations — Finished art work for fashion illustrations, technical illustrations or other large drawings requiring color shading and screens are completed quickly with color tints and shading films. Pressure-sensitive, heat-resistant adhesive requires no burnishing.

Structural & Material Conveyor Tapes

Transparent Tape

Chart-Pak Structural and Material Conveyor Tapes are used in the preparation of plant layouts by architects, engineers, draftsmen, industrial designers, plant managers and machinery and equipment salesmen. Many of the Structural Tapes are also used in office layouts.

Chart-Pak eliminates repetitive drawing with a variety of more than 50 representative patterns — draftsman-drawn to a scale of $\frac{1}{4}'' = 1''$. Chart-Pak's special dual layer manufacturing process permanently protects the printed patterns. The patterns are printed with opaque black ink on transparent tape and then laminated with another thin clear transparent tape to protect the printing.

All Chart-Pak Tapes are backed with a pressure-sensitive, heat-resistant adhesive. Tapes adhere quickly, easily. Stay down until you remove them. May be lifted and repositioned. Won't shrink, peel or fade. Perfect for diazo and/or photographic reproduction.

Structural and Material Conveyor Tapes for direct presentation, diazo or photographic reproduction.

- *Plant Layouts*
- *Office Layouts*
- *Floor Plans*
- *Technical Illustrations*

TAPE TIP: When working with pressure-sensitive tape, the end of the tape, when not in use, should be folded under for easy starting.

To order special printed tapes see page 38.

Chart-Pak Procedure For Preparing Plant Layouts

**This Easy-To-Use
6-Step Method
Will Assist You In
Making Neat, Accurate
Plant Layouts**



Assemble necessary materials: appropriate Chart-Pak structural, conveyor, symbol and solid color tapes; templates sheets; planning board or layout sheet; tape cutter and tape pen.



Indicate locations of machinery and material conveyors. (Architectural drawings, blueprints and survey data provide information on structural components: walls, columns, aisles, partitions, stairs, windows, doors, radiators, air conditioners, power facilities, etc.)



Apply and position tapes and templates. (Special templates may be drawn and trimmed to exact scale on Chart-Pak Template Sheets. Tapes and templates may be lifted and repositioned without damage to planning board or layout sheet.

STRUCTURAL AND MATERIAL CONVEYOR TAPES FOR PLANT LAYOUTS



Turn Into A "Quick-Change Artist" — Chances are, your original layout will require revisions before all minds are made up. For quick changes, simply lift and reposition Chart-Pak Tapes — as often as necessary.



More Than 50 Patterns — The most complex layout is easily and quickly prepared with Chart-Pak Tapes. A large variety of structural and conveyor patterns are pre-drawn to a scale of $1/4" = 1'$. Repetitive drawing is eliminated as walls, power lines, conveyors are pressed down.



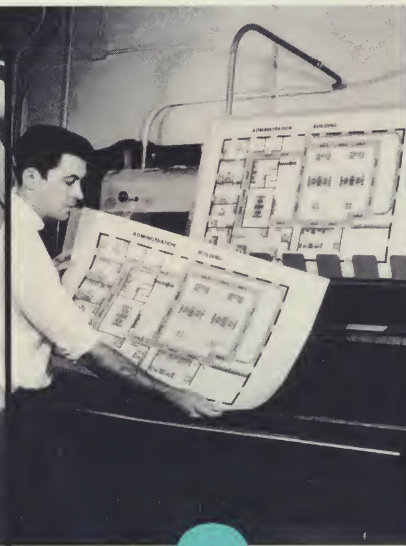
4

Write in dimensions, reference information and instructions where necessary. Matte finish of Chart-Pak planning boards and layout sheets takes pen, pencil and crayon. Chart-Pak Spaced Lettering or Trans-Pak Lettering* may be used also. Or data may be typed on pressure-sensitive transmatte or ledger paper and affixed to board.



5

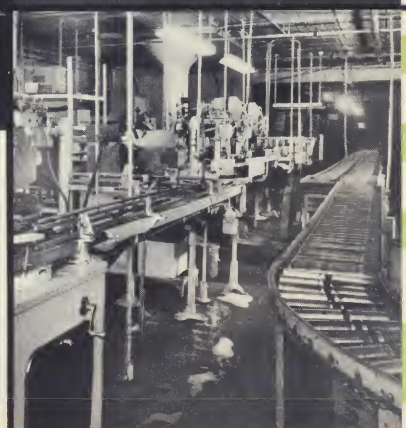
Inspect finished layout. Make last minute changes simply by lifting and repositioning or replacing tapes and templates. Erase unnecessary pencil markings. Layout is now ready for direct presentation or reproduction.



6

Make copies of the original layout. Diazo or photographic reproduction processes may be used. Materials used in the layout will not be affected by either method.

*Ask your dealer or write to Chart-Pak for a Trans-Pak Visual Communications catalog.



SPECIFY CATALOG NUMBER AND QUANTITY WHEN ORDERING.

TL380A 1/4" x 324" \$1.25/rl.

TL382A 1/4" x 324" \$1.25/rl.

TL383A 1/4" x 324" \$1.25/rl.

TL384A 1/4" x 324" \$1.25/rl.

TL385A 1/4" x 324" \$1.25/rl.

TL386A 1/4" x 324" \$1.25/rl.

TL387A 1/4" x 324" \$1.25/rl.

TL388A 1/4" x 324" \$1.25/rl.

TL389A 1/4" x 324" \$1.25/rl.

TL390A 1/4" x 324" \$1.25/rl.

TL391A 1/4" x 324" \$1.25/rl.

TL392A 1/4" x 324" \$1.25/rl.

TL393A 1/4" x 324" \$1.25/rl.

TL394A 1/4" x 324" \$1.25/rl.

TL395A 1/4" x 324" \$1.25/rl.

TL396A 1/4" x 324" \$1.25/rl.

Patterns Illustrated Are Actual Size

T or TL in catalog number indicates transparent tape.

TL397A 1/4" x 324" \$1.25/rl.

TL398A 1/4" x 324" \$1.25/rl.

TL399A 1/4" x 324" \$1.25/rl.

TL400A 1/4" x 324" \$1.25/rl.

TL817A 1/4" x 324" \$1.25/rl.

TL818A 1/4" x 324" \$1.25/rl.

TL819A 1/4" x 324" \$1.25/rl.

TL820A 1/4" x 324" \$1.25/rl.

TL821A 1/4" x 324" \$1.25/rl.

TL822B 3/8" x 324" \$1.35/rl.

TL823A 1/4" x 324" \$1.25/rl.

TL824A 1/4" x 324" \$1.25/rl.

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TL350A Bldg. Cols.—Steel WF 6"
(as illustrated)

1/4" x 324" \$1.25/rl.

TL350AA Bldg. Cols.—Steel WF 8"

1/4" x 324" \$1.25/rl.

TL350B Bldg. Cols.—Steel WF 12"

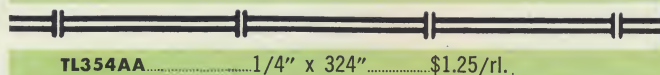
3/8" x 324" \$1.35/rl.

TL350C Bldg. Cols.—Steel WF 18"

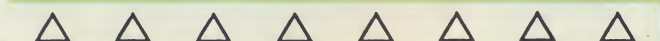
1/2" x 324" \$1.45/rl.

TL354A 1/4" x 324" \$1.25/rl.

STRUCTURAL AND MATERIAL CONVEYOR TAPES FOR PLANT LAYOUTS



TL354AA 1/4" x 324" \$1.25/rl.



TL815A 1/4" x 324" \$1.25/rl.



TL816A 1/4" x 324" \$1.25/rl.



258A (opaque) 1/4" x 324" \$1.25/rl.

258TA 1/4" x 324" \$1.25/rl.



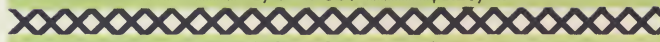
258AA (opaque) 1/8" x 324" \$1.00/rl.

258TAA 1/8" x 324" \$1.00/rl.



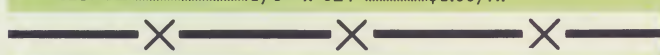
370A (opaque) 1/4" x 324" \$1.25/rl.

TL370A 1/4" x 324" \$1.25/rl.

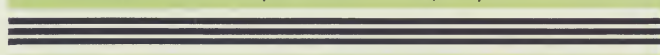


371Z (opaque) 1/8" x 324" \$1.00/rl.

TL371Z 1/8" x 324" \$1.00/rl.



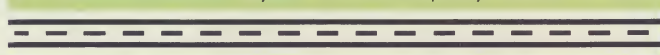
TL373A 1/4" x 324" \$1.25/rl.



TL374A 1/4" x 324" \$1.25/rl.



TL375A 1/4" x 324" \$1.25/rl.



TL376A 1/4" x 324" \$1.25/rl.



TL377A 1/4" x 324" \$1.25/rl.



TL378A 1/4" x 324" \$1.25/rl.



TL120B 12" Roller Conveyor (as illustrated)
3/8" x 324" \$1.35/rl.

TL120C 15" Roller Conveyor
1/2" x 324" \$1.45/rl.

TL120E 28" Roller Conveyor
3/4" x 324" \$1.70/rl.

TL120F 36" Roller Conveyor
7/8" x 324" \$1.85/rl.

TL120G 40" Roller Conveyor
1" x 324" \$1.95/rl.



TL120BD 12" Roller Conv.—Curve (as illustrated)
(3/4" inside radius) 5/8" x 324" \$1.55/rl.

TL120CE 15" Roller Conv.—Curve
(3/4" inside radius) 3/4" x 324" \$1.70/rl.

TL120EG 28" Conv.—Curve
(1" inside radius) 1" x 324" \$1.95/rl.

O. H. MONORAIL

TL122A 6" Overhead Monorail
1/4" x 324" \$1.25/rl.

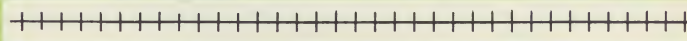


TL122AC 6" Overhead Monorail—Curve
(1" inside radius) 1/2" x 324" \$1.45/rl.

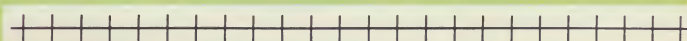
BELT CONV.

TL126C 20" Belt Conveyor (as illustrated)
1/2" x 324" \$1.45/rl.

TL126A 10" Belt Conveyor
1/4" x 324" \$1.25/rl.



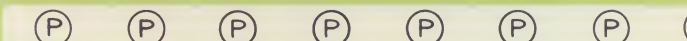
TL127AA 1/4" x 324" \$1.25/rl.



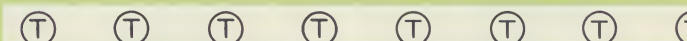
TL127AB 1/4" x 324" \$1.25/rl.



TL127AC 1/4" x 324" \$1.25/rl.



TL355AP Power 1/4" x 324" \$1.25/rl.



TL355AT Telephone 1/4" x 324" \$1.25/rl.



259TA 12" Aisles—Dotted (as illustrated)
1/4" x 324" \$1.25/rl.

259TC 24" Aisles—Dotted
1/2" x 324" \$1.45/rl.

259TG 48" Aisles—Dotted
1" x 324" \$1.95/rl.

AISLE AISLE

TL359B Aisle-Printed Word "Aisle"
3/8" x 324" \$1.35/rl.



TL360E 36" Stairs (as illustrated)
3/4" x 324" \$1.70/rl.

TL360H 60" Stairs 1/4" spacing—Printed to
edge (as illustrated) 1-1/4" x 324" \$2.30/rl.



TL362A 1/4" x 324" \$1.25/rl.



* TL363AA 1/4" x 324" \$1.25/rl.



* TL363A 1/4" x 324" \$1.25/rl.



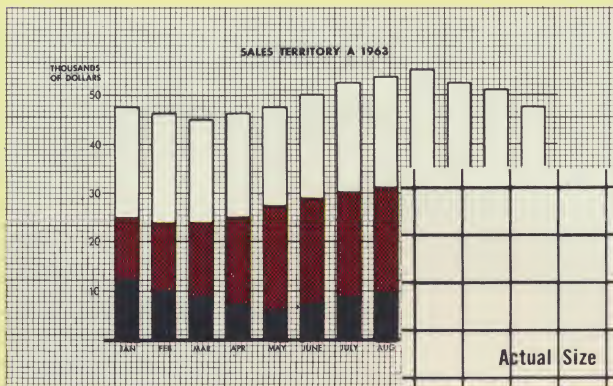
* TL363B 3/8" x 324" \$1.35/rl.

Available in black, red, blue and green.

Planning Boards

Model A and E Boards

For the ideal surface on which to make charts, graphs, and layouts with Chart-Pak tapes, Chart-Pak recommends these specially constructed, laminated plastic boards. Non-porous surface makes it easy to remove and replace materials. Can be used indefinitely. White, with non-reproducible blue grid lines in marked intervals, for guide lines. Opaque matte finish is easy to write on with pencil or crayon — and is easily cleaned with Chart-Pak Plastic Cleaner (page 40), or a mild solution of liquid detergent. Available in two styles: for layouts and organization charts, and for graphic charts. Also in two metric sizes. Excellent as a base layout sheet for photographic reproduction.



■ For layouts, statistical and organization charts

Model A Planning Board — 20-3/4" x 32-1/2" x .03". Printed area 20" x 30". Every fourth line on each axis is accented. Four units to the inch.

Price — \$13.75 ea. \$11.00 ea. in pkgs. of 3 or more.

Model E Planning Board — 10-3/4" x 17" x .02". Printed area 10" x 16". Every fourth line on each axis is accented. Four units to the inch.

Price — \$4.50 ea. \$3.60 ea. in pkgs. of 6 or more.

Model A METRIC Planning Board — 52.6 cm x 82.5 cm x .7 mm. Printed area 50 cm x 76 cm. Every fourth line on each axis is accented. Four units per centimeter.

Price — \$13.75 ea. \$11.00 ea. in pkgs. of 3 or more.

Model E METRIC Planning Board — 27.3 cm x 43.2 cm x .7 mm. Printed area 24 cm x 40 cm. Every fourth line on the axis is accented. Four units per centimeter.

Price — \$4.50 ea. \$3.60 ea. in pkgs. of 6 or more.

Model A-5 Planning Board — 20-3/4" x 32-1/2" x .03". Printed area 20" x 30". Every fifth line on each axis is accented. Five units to the inch.

Price — \$13.75 ea. \$11.00 ea. in pkgs. of 3 or more.

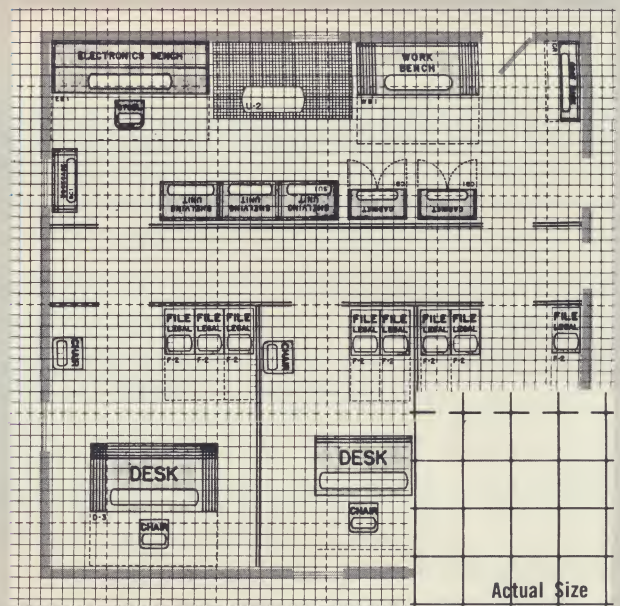
Model E-5 Planning Board — 10-3/4" x 17" x .02". Printed area 10" x 16". Every fifth line on each axis is accented. Five units to the inch.

Price — \$4.50 ea. \$3.60 ea. in pkgs. of 6 or more.

Transgrid Layout Sheets

Translucent Matte Surface

For plant and office layouts or technical illustrations where a 1/4" grid is needed. Every tenth line is dashed. Printed with orange or black grid (reproducible) or blue grid (non-reproducible). Made of translucent matte finish MYLAR® .0075" thick, grid sheets are available in rolls or custom cut sheets. Ink and pencil is easily erased. Translucent matte surface assures crisp reproduction.



Sheet width is 36"; printed area is 35".
Standard lengths listed above;
all others are dealer custom cut to your need.

Length of Piece	Black Grid	Orange Grid	Non-Reproducible Blue Grid	Price Per Piece
1 yd.	TBK-1	TB0-1	TBL-1	\$ 6.50
5 yds.	TBK-5	TB0-5	TBL-5	28.00
10 yds.	TBK-10	TB0-10	TBL-10	54.00

Metric Transgrid Layout Sheets

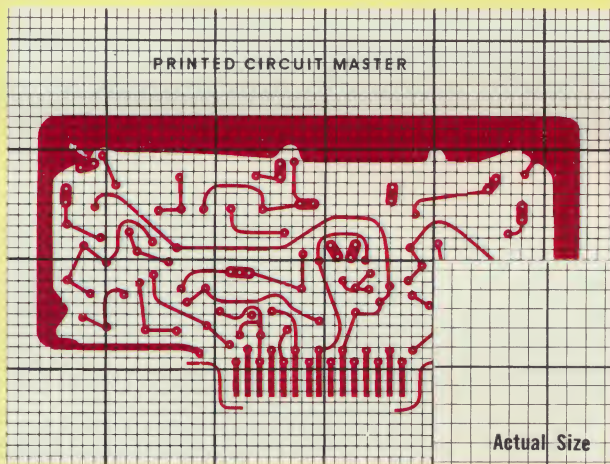
Length Of Piece	Black Grid	Non-Reproducible Blue Grid	Price Per Piece
1 yd.	TMBK-1	TMBL-1	\$ 6.50
5 yds.	TMBK-5	TMBL-5	\$28.00
10 yds.	TMBK-10	TMBL-10	\$54.00

Specify color when ordering.

Precision Grids

Translucent Matte Surface

For master drawings for printed circuitry, or wherever accuracy and dimensional stability is of critical importance. The distance between any two lines is guaranteed accurate within .005". Grids are printed in black or non-reproducible blue on matte finish MYLAR®, .0075" thick.



Cat. No. PG-10 21" x 31" x .0075". Print area 20" x 30", 10 lines per inch, each 10th line is accented.

Price — 1-49 sheets \$12.50 each 50 sheets or over \$10.00 each.

Cat. No. PG-8 21" x 31" x .0075". Printed area 20" x 30", 8 lines per inch, each 8th line is accented.

Price — 1-49 sheets \$12.50 each 50 sheets or over \$10.00 each.

Cat. No. PG-10L 31" x 41" x .0075". Printed area 30" x 40", 10 lines per inch. Each 10th line is accented.

(Available in blue only)

Price — \$20.00 each.

Specify color when ordering.

*DuPont Registered Trademark



Accurate Positioning — Precise intervals between grid lines, broken lines or accented solid lines on Chart-Pak planning boards, layout sheets and precision grids assure perfect positioning of tapes and components.



Efficient Revisions — Non-porous matte surface of Chart-Pak plastic boards makes it easy to lift off tapes and components. Save time and money. Update & connect simply by removing and replacing.



Re-usable Boards And Sheets — Indefinite use. Matte finish takes pencil or crayon. May be erased or easily cleaned with Chart-Pak Plastic Cleaner.

Office and Drafting Room Furniture

Chart-Pak Templates are valuable planning aids for architects, plant layout draftsmen, interior designers, office managers and furniture, equipment, and systems salesmen.

Die-cut from either plasticized paper and/or matte finish film, Chart-Pak Templates are extremely accurate. A backing sheet protects the heat-resistant, pressure-sensitive adhesive. Templates are applied easily and quickly. May be lifted and repositioned many times without damage. Available in opaque or transparent base for photographic and diazo reproduction.

Sizes indicated in table are maximum dimensions. To facilitate accurate trimming for smaller or "in-between" sizes, Chart-Pak Templates are marked with lines representing 2" decrements. Simply trim to appropriate size.

O — Opaque Templates — Plasticized, non-curling material. Use for Photographic reproduction on opaque planning board (page 30).

T — Transparent Templates — On transparent, matte finish plastic. For diazo reproduction on transparent grid (page 31).

SPECIFY "O" OR "T" IN CATALOG NUMBER AND 1/8" OR 1/4" TEMPLATE SCALE WHEN ORDERING.

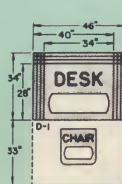
TAPE TIP: To apply template, lay it face down, loosen the corner of backing sheet at the split with Chart-Pak chisel, and peel backing sheet away from Template. Never peel template from backing sheet.

FOR MORE INFORMATION ABOUT:

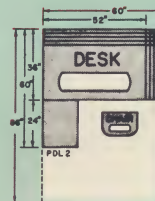
Transgrid layout sheets (1/4" scale)See page 31
 Precision grid sheets (1/8" scale)See page 31
 Plant and office layout tapes.....See page 26
 Special symbol tapes.....See page 16
 Transparent color tapes.....See page 10
 Sheets to make your own templates..See page 37
 Special tapes or templates to order..See page 38

Price per package — \$1.25

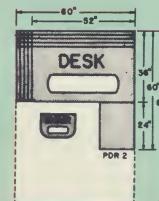
NEW! TEMPLATES NOW AVAILABLE IN 1/8" AND 1/4" SCALE



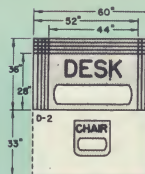
No. D1



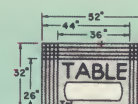
No. PDL2



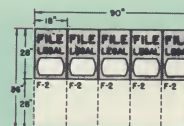
No. PDR2



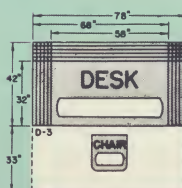
No. D2



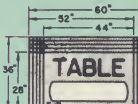
No. T1



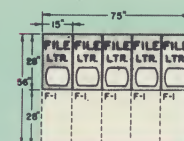
No. F2



No. D3



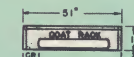
No. T2



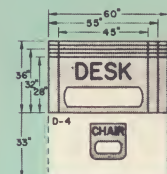
No. F1



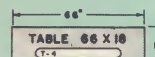
No. T3



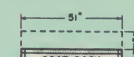
No. CR1



No. D4



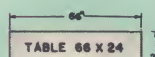
No. T4



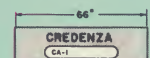
No. CR2



No. D5



No. T5



No. CA1

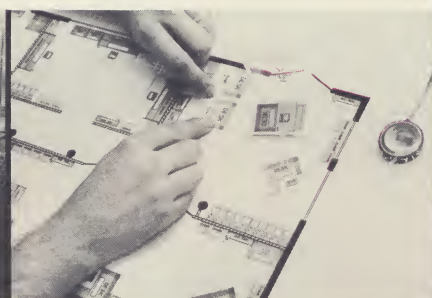


No. T9

**"Before You
Move a
Desk,
Move a
Template"**



Consider the room — its purpose, people and problems.

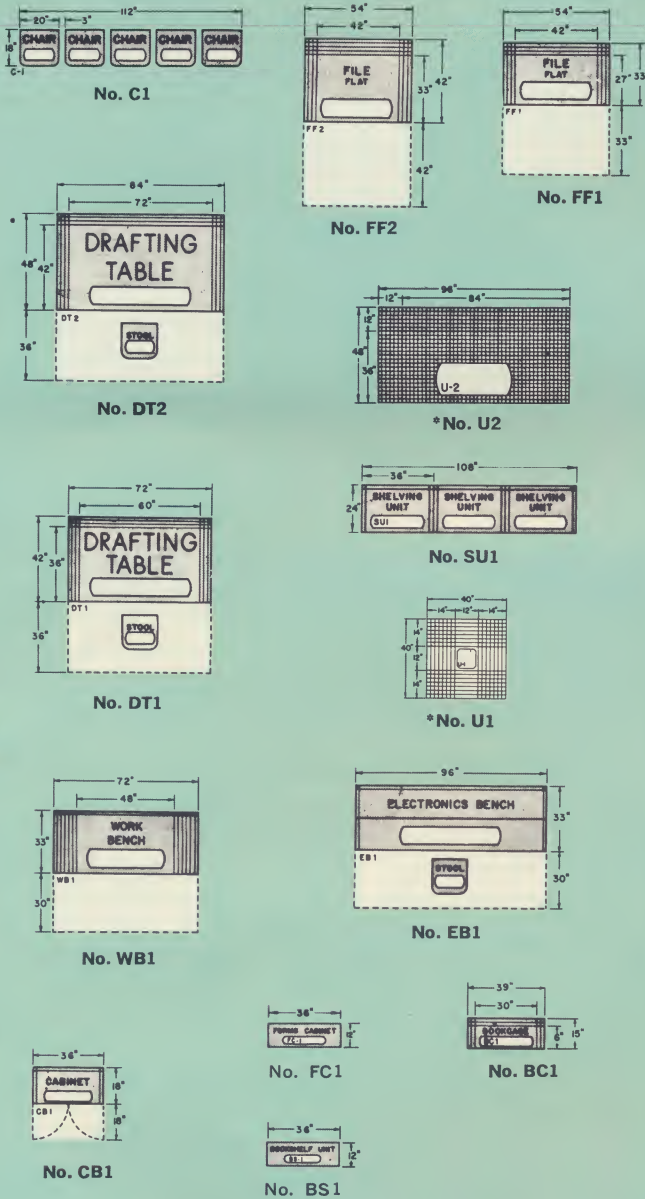


Prepare floor plan — Position Chart-Pak Templates on Planning Board or Layout Sheet.



Order furniture — Pre-arranged floor plan facilitates exact furniture-placement upon delivery.

Pressure-Sensitive TEMPLATES FOR OFFICE AND DRAFTING ROOM FURNITURE



TEMPLATES ILLUSTRATED ARE ACTUAL SIZE — 1/8" = 1' SCALE

Same templates available in 1/4" = 1" scale. Dimensions shown are for reference only and are not marked on templates.



Move in — Planning assures immediate moving and staff efficiency in new quarters.

**"Plan Your
Next Move
With
CHART-PAK
Templates"**

Number	Description	Size	Quantity Per Pkg.
*DESK (Secretarial)			
D1	Desk	34" x 46"	30
D2	Desk	36" x 60"	30
D3	Desk	42" x 78"	30
D4	Desk	36" x 60"	30
D5	Desk	30" x 50"	30
*DESK (Executive)			
PDL2	(Pedestal left) Desk	86" x 60"	30
PDR2	(Pedestal right) Desk	86" x 60"	30
*TABLE			
T1	Table	32" x 52"	30
T2	Table	36" x 60"	30
T3	Table	44" x 78"	30
T4	Conference Table	66" x 18"	30
T5	Conference Table	66" x 24"	30
T9	Table	24" x 24"	30
*CHAIR			
C1	Chair	18" x 20"	30
*FILE			
F1	File (Letter Size)	56" x 75"	30
F2	File (Legal Size)	56" x 90"	30
*FILE			
FF1	File (Flat)	33" x 54"	30
FF2	File (Flat)	42" x 54"	30
*DRAFTING TABLE			
DT1	Drafting Table	42" x 72"	30
DT2	Drafting Table	48" x 84"	30
*WORKBENCH			
WB1	Workbench	33" x 72"	30
*CABINET			
CB1	Cabinet	18" x 36"	30
FC1	Forms Cabinet	12" x 36"	30
*COAT RACK			
CR1	Coat Rack	12" x 51"	30
CR2	Coat Rack	21" x 51"	30
*BOOKCASE			
BC1	Book Shelving Unit	15" x 39"	30
BS1	Book Shelving Unit	12" x 36"	30
*SHELVING & UTILITY			
SU1	Shelving	24" x 108"	30
U1*	Utility	40" x 40"	30
U2*	Utility	48" x 96"	30
*ELECTRONICS BENCH			
EB1	Electronics Bench	33" x 96"	30
*CRENZEA			
CA1	Credenza	18" x 66"	30

*Use for machine templates, utility cabinets, bookcases, water coolers, lockers, etc. Refer to page 37 for special template materials.

Price per package — \$1.25

*** SPECIFY "O" OR "T" IN CATALOG NUMBER AND 1/8" OR 1/4" TEMPLATE SCALE WHEN ORDERING.**

Sizes indicated are maximum dimensions. Templates are marked with lines representing 2" decrements to facilitate trimming when necessary.

Transparent and Opaque Pressure Sensitive Base Materials

Chart-Pak Symbols are used in organization, work flow and data processing charts.

A complete selection of standard symbols is available to facilitate simple, fast chart-making. All Chart-Pak Symbols are manufactured with a pressure-sensitive, heat-resistant adhesive and a protective backing. Simply remove the backing, and press down symbols. No burnishing required. Chart-Pak Symbols also add greater flexibility to charts. Revisions are easy. Just lift outdated symbols off the board, and add the new ones.

All symbols are printed on sheets of white opaque ledger paper and transparent matte finish film. May be reproduced by diazo or photographic processes. Transparent materials assure clear, crisp diazo reproduction.

Chart-Pak provides all the symbols, tapes and tape components, and materials used in the preparation of professional charts:

■ Pre-printed Symbols

for Organization Charts — page 35

for Work Flow and Data Processing Charts — page 35

■ Tapes for Connecting Lines

Solid Lines — page 17 (Catalog Numbers 101, 104)
page 6 (Catalog Number 3101)

Broken Lines — page 17 (Catalog Number 102)
page 13 (Catalog Numbers 3120, 3121)

Arrows — page 17 (Catalog Numbers 103, T1242AA)

■ Planning Boards

Model A or E — page 30

■ Accessories

Plastic Tape Cutter — page 40

Plastic Chisel — page 40

Plastic Board Cleaner — page 40

■ Spaced Lettering — page 11

■ Special Symbols — page 39

CHART-PAK PROCEDURE FOR PREPARING CHARTS Simple — Fast — Flexible

Each package of Chart-Pak Symbols includes these instructions on chart make-up:

1. Type or letter necessary data on boxes, circles or other symbols where required. (Or Chart-Pak Spaced Lettering may be used.)
2. Trim symbols as needed and arrange symmetrically on the Planning Board.
3. Remove symbol backing and press symbols on board.
4. Connect symbols with appropriate tapes.
5. To revise chart symbols, just peel off and replace.
6. Display or reproduce finished chart by diazo or photographic methods.

TAPE TIP: When separating symbols from protective backing sheet, pull the backing away from the symbols.

Organization and Flow Chart Symbols

Available in Pressure-Sensitive Ledger Paper
and Pressure-Sensitive Matte Finish Film

Chart-Pak rectangles and circles are designed primarily for organization and flow charts, but are also used as title blocks, legend frames and labels in blueprints, graphs and maps.

Rectangles are available in 17 sizes. Circles in two sizes. All symbols are printed on pressure-sensitive sheets for typing and layout ease. Rectangles and Circles are printed in black.

For special sizes, see page 39.

**SPECIFY CATALOG NUMBER AND
QUANTITY WHEN ORDERING.**

Work Flow and Data Processing Symbols

Pressure-Sensitive Transparent and Opaque Symbols

Chart-Pak Work Flow and Data Processing Symbols are used to illustrate flow of work and material, flow and handling of forms and machine accounting data in charts.

Chart-Pak's variety of standardized symbols makes it easy to indicate graphically one or many steps in the flow of manufacturing materials and paper work, in plants and offices.

Pressure-Sensitive Ledger Paper or Matte Finish Film Packages contain six sheets — one for each symbol. Each sheet contains 115 replicas of one symbol (44 large, 39 medium, 32 small). Blank sheet for making special symbols also included. Sheets measure 6-3/4" x 9-1/2". Symbols are printed in black.

Cat. No. DP-21-O (Opaque)..... \$1.00 pkg.

Cat. No. DP-21-T (Transparent) \$1.00 pkg.

Work Flow Form Symbols

Pressure-Sensitive Ledger Paper and Matte Finish Film

Form Symbols are rectangular frames used primarily to show flow of paper work by adding forwarding instructions to the symbols.

Packages contain 10 sheets. Each sheet contains 13 1-copy, 5 2-copy, 5 3-copy, 2 4-copy, 2 5-copy, 1 7-copy forms.

Frames are printed in black.

FS-50 (Opaque)..... \$3.50 pkg.

FS-50-T (Transparent)..... \$3.50 pkg.

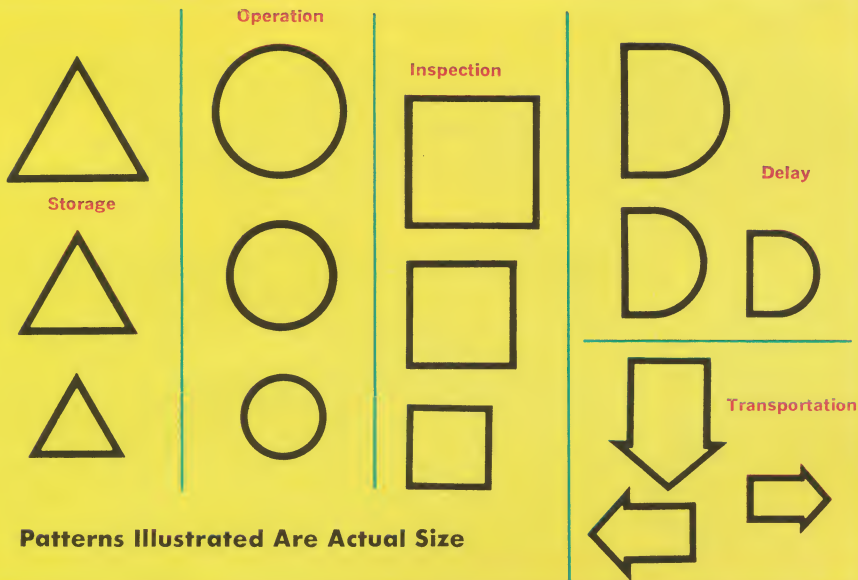
Many pressure-sensitive die cut Trans-Pak symbols are available for organization, work flow and data processing charts. Ask your dealer or write to Chart-Pak, Inc. for a Trans-Pak catalog.

ORGANIZATION WORK FLOW & DATA PROCESSING SYMBOLS FOR CHARTS

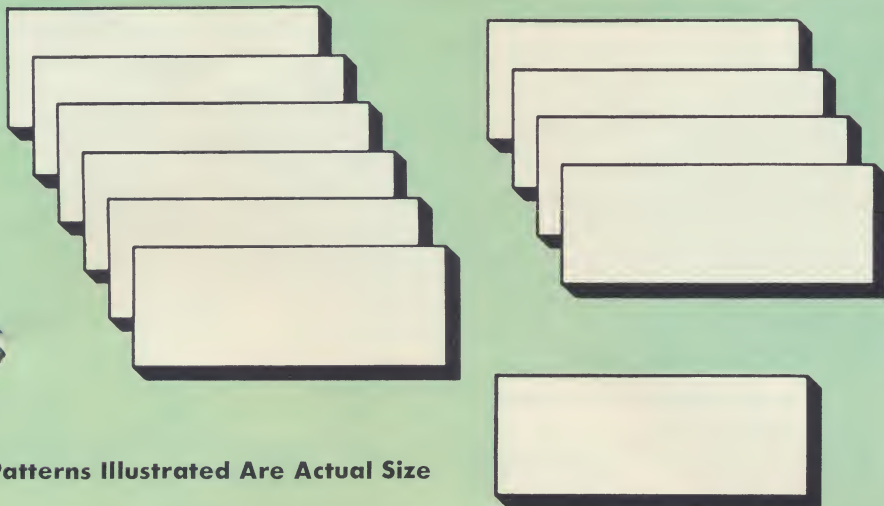
Cat. No.		Size of Ea. Block	Blocks per pkg.	Sheets per pkg.	Price per pkg.
Opaque	Trans- parent				
1A	1A-T	3/4" x 1-1/2"	180	6	\$1.00
1B	1B-T	1" x 2"	120	6	1.00
1C	1C-T	1/2" x 2"	216	6	1.00
1D	1D-T	1-1/2" x 2"	90	6	1.00
2	2-T	1" x 3"	90	6	1.00
3	3-T	1" x 4"	60	6	1.00
4	4-T	1" x 5"	48	6	1.00
5	5-T	1-1/2" x 3"	60	6	1.00
6	6-T	1-1/2" x 4"	48	6	1.00
7	7-T	2" x 3"	48	6	1.00
8	8-T	2" x 4"	36	6	1.00
9	9-T	3" x 5"	12	6	1.00
10	10-T	4" x 6"	12	6	1.00
11	11-T	5" x 8"	6	6	1.00
12	12-T	2-1/2" x 5"	18	6	1.00
13	13-T	2-1/2" x 7"	12	6	1.00
14	14-T	2-1/2" x 9"	12	6	1.00
20C	20C-T	1-1/2" diameter	120	6	1.00
21C	21C-T	2" diameter	72	6	1.00



Organization Charts Made Easier — Chart-Pak provides rectangles and circles in an ample variety of sizes for the most complex organizational set-up. Lines of authority and lines of staff are made with Chart-Pak Pressure-Sensitive Tapes.



Work Flow Readily Identified — Chart-Pak's standard symbols for work flow combined with Chart-Pak Color Tapes make the most involved operations easy to follow. Plastic Planning Boards facilitate preparation.



Crisp, Clear, Reproduction — Chart-Pak Form Symbols and other organization, work flow and data processing symbols are available on opaque white ledger paper and transparent matte finish film. Opaque for photographic reproduction. Transparent for diazo.

Pert Symbols

Chart-Pak PERT Symbols facilitate preparation and assure immediate understanding of PERT (Program Evaluation Review Technique), CPM (Critical Path Method) and similar charts used by government agencies, contractors and subcontractors.

By graphically illustrating the tasks involved in a project, the sequence of their performance and the amount of time they require, management is able to plan, schedule and control all operations from start to finish. Progress, delays and their effects are determined at a glance.

Chart-Pak PERT Symbols listed on this page are printed in black and die cut from pressure-sensitive base materials. Symbols in sheet form are available on opaque white sheets or translucent matte sheets. In roll form, they are available on opaque white or translucent matte material. The finishes provide an ideal writing or typing surface for explanatory notes and titles.

Sheets and rolls are backed with a pressure-sensitive, heat-resistant adhesive. Symbols adhere quickly, easily. Stay down until you remove them. May be lifted and replaced as determined by program reviews, replanning, rescheduling. Chart-Pak Symbols reproduce crisp and clear. Perfect copies of a master PERT network are made by diazo or photographic processes.

Chart-Pak provides all the PERT Symbols and a variety of pressure-sensitive tapes for the most detailed PERT network:

EVENTS (the beginning or end of an activity)
Circles, Ovals, Hexagons, Rectangles, Ellipses,
See page 37

ACTIVITIES (the tasks performed)
Arrows and Arrowheads, See page 17 and Trans-Pak catalog

CRITICAL PATH (line of activities requiring greatest total amount of time)
Solid Lines See pages 6 and 8.

SLACK, PROGRESS, SPECIAL SITUATIONS
Broken and Pattern Lines See page 17

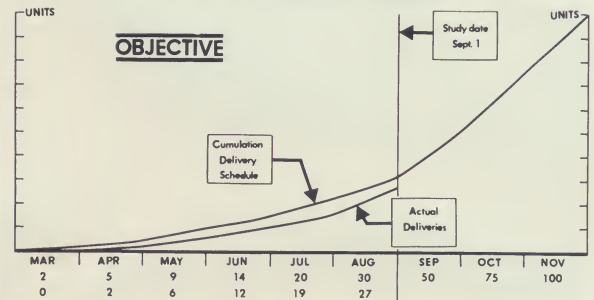
TIME ESTIMATES, NOTES, TITLES
Letters and numbers See page 11 and Trans-Pak catalog.

COMPLETION OF AN EVENT
Flags See Page 37

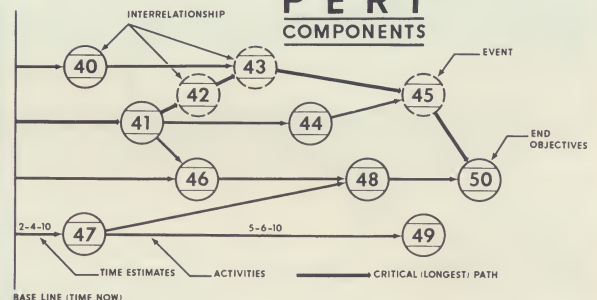
SPECIAL SYMBOLS
See page 39

TAPE TIP: Program changes that arise during periodic reviews are easily made with Chart-Pak Symbols. Simply lift and replace or reposition changed symbols.

LINE OF BALANCE CHART



PERT COMPONENTS



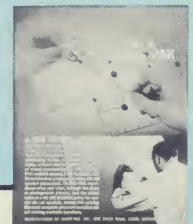
TRANS-PAK Pressure-Sensitive Die Cut Symbols

Trans-Pak offers a new, patented method for the application of pressure-sensitive die cut symbols. Just position, press and peel any one of a multitude of Trans-Pak symbols. Eliminate repetitive drawing. Save time by using the fast, accurate, distortion-free Trans-Pak method. Trans-Pak symbols reproduce crisp and clear through the diazo and/or photographic process.

Trans-Pak symbols combine readily with other Chart-Pak components. Symbols are available in many sizes, five base materials and 16 colors. Letters and numbers are also available. And there is NO DIE CHARGE for special symbols.

Many Trans-Pak Symbols are available for PERT Programming. Ask your dealer or write to Chart-Pak, Inc. for the new Trans-Pak catalog.

Symbols also available in colors
See Trans-Pak catalog.



Symbols for Time Estimates

1 2 3 4-0

TP24-1 THRU TP24-0..\$1.00/Roll

A B C-Z

TP24-A THRU TP24-Z \$1.00/Roll

Symbols for Activities

TPS229.. \$1.00/Roll

TPS126.. \$1.45/Roll

TPS230.. \$1.00/Roll

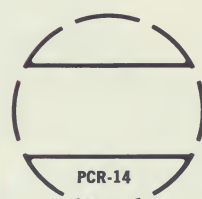
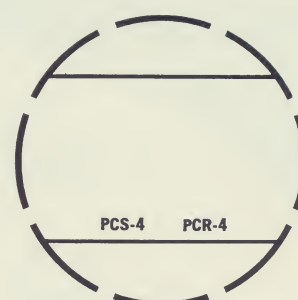
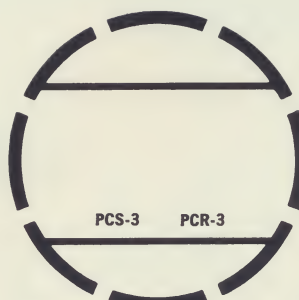
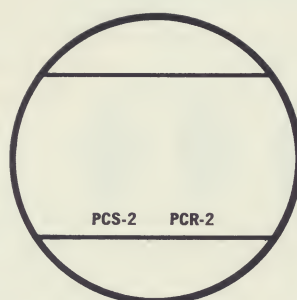
TPS228.. \$1.45/Roll

TPS120 \$1.95/Roll

TPS 92.. \$3.00/Roll

Pressure-Sensitive PERT SYMBOLS

Symbols for Events



PCR-16



PCR-17



PRR-1



PHR-1



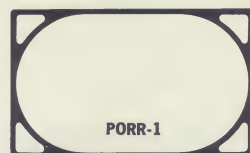
PHR-2



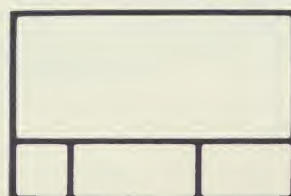
POR-1



POR-2



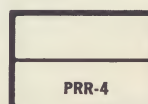
PORR-1



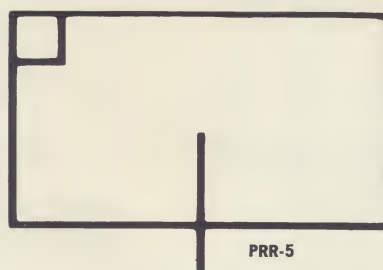
PRR-2



PRR-3



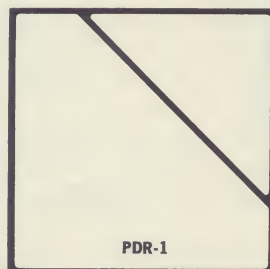
PRR-4



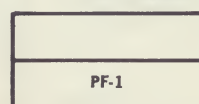
PRR-5



PSR-1



PDR-1



PF-1

Symbols for Completion of an Event

1 1/2" Diameter Circles in Die Cut SHEET Form

Cat. No.	Description	Price
PCS-1-O	Heavy Solid Line	\$.50/Sheet
PCS-1-T	Heavy Solid Line	\$.50/Sheet
PCS-2-O	Light Solid Line	\$.50/Sheet
PCS-2-T	Light Solid Line	\$.50/Sheet
PCS-3-O	Heavy Broken Line	\$.50/Sheet
PCS-3-T	Heavy Broken Line	\$.50/Sheet
PCS-4-O	Light Broken Line	\$.50/Sheet
PCS-4-T	Light Broken Line	\$.50/Sheet

Sheet Size: 6 3/4" x 9 1/2" — 15 Circles Per Sheet

PERT FLAGS in SHEET Form

PF-1-O	Heavy Solid Line	\$.30/Sheet
PF-1-T	Heavy Solid Line	\$.30/Sheet

Sheet Size: 9 1/2" x 13" — 35 Flags Per Sheet

O — OPAQUE White Pressure-Sensitive Sheets

T — TRANSLUCENT Matte Pressure-Sensitive Sheets

Circles in Die Cut ROLL Form

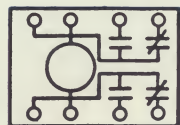
Cat. No.	Description	Price
PCR- 1	Heavy Solid Line — 1 1/2" Dia.	\$6.50/Roll
PCR- 2	Light Solid Line — 1 1/2" Dia.	\$6.50/Roll
PCR- 3	Heavy Broken Line — 1 1/2" Dia.	\$6.50/Roll
PCR- 4	Light Broken Line — 1 1/2" Dia.	\$6.50/Roll
PCR- 5	Light Solid Line — 1" Dia.	\$6.50/Roll
PCR-11	Heavy Solid Line — 1" Dia.	\$6.50/Roll
PCR-12	Light Solid Line — 1" Dia.	\$6.50/Roll
PCR-13	Heavy Solid Line — 1" Dia.	\$6.50/Roll
PCR-14	Light Broken Line — 1" Dia.	\$6.50/Roll
PCR-16	Light Solid Line — 3/8" Dia.	\$3.50/Roll
PCR-17	Light Solid Line — 1/4" Dia.	\$3.50/Roll

Other PERT Symbols in Die Cut ROLL Form

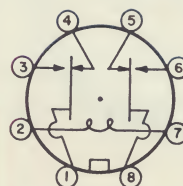
PDR-1	1-3/8" x 1-3/8" Square	\$6.50/Roll
PHR-1	13/16" x 1-3/8" Hexagon	\$6.50/Roll
POR-1	7/8" x 1-1/2" Oval	\$6.50/Roll
PORR-1	3/4" x 1-1/4" Rectangle	\$6.50/Roll
PRR-1	13/16" x 1-5/16" Rectangle	\$6.50/Roll
PSR-1	1-3/8" x 1-3/8" Square	\$6.50/Roll
PHR-2	3/8" x 1" Hexagon	\$4.50/Roll
POR-2	3/4" x 1-1/4" Oval	\$6.50/Roll
PRR-2	3/4" x 1-1/2" Rectangle	\$6.50/Roll
PRR-3	1/4" x 1/2" Rectangle	\$3.50/Roll
PRR-4	1/2" x 3/4" Rectangle	\$4.50/Roll
PRR-5	1-1/8" x 2" Rectangle	\$6.50/Roll

250 Symbols Per Roll on Translucent Matte or Opaque Material

Special Printed TAPES



46
48



60



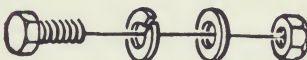
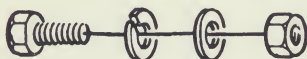
55



When Ordering Indicate Transparent or Opaque Material.

Special Printed SHEETS

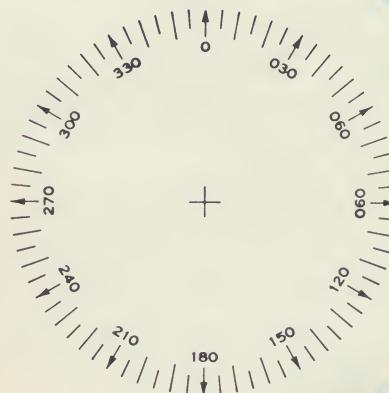
3184
4005
4032
4097



**DO NOT CLOSE
OUT OF PHASE**



the air line with the BIG JETS



When Ordering Indicate Transparent or Opaque Material.

Special Tapes, Sheets And Title Blocks

When you draw a special line or symbol more than once, it's time to think about Chart-Pak. Chart-Pak can pre-print any special pattern, any special title block, in any special color on any special pressure-sensitive base material. All we need is your original drawing.

Our artists and craftsmen can make up special tapes or templates, title blocks, colors or surfaces on any special pressure-sensitive base material. Or you can furnish the original artwork. It must, however, be of top quality. If you wish our artists to do the artwork, rates are \$5.00 per hour. The following information will be helpful in figuring your cost and the base material best suited for your specific need.

Special Printed Tapes

A 10-roll minimum order is required for any special printed configuration on Chart-Pak pressure-sensitive tape. Tapes are available in a variety of base materials (acetate fiber, matte acetate, acetate film, crepe paper, Paklon®) and colors. The clear, heat-resistant adhesive is perfect for diazo and/or photographic reproduction.

*3M Registered Trademark.

How to Order Special Printed Tapes

For pricing, use Chart-Pak general catalog standard list price per roll for Transparent (T, TL) or Opaque tapes. To this, add a plate and set-up charge of \$20.00.
Example:

10 rolls 1/4" x 324"	\$1.25 per roll.....	\$12.50
Plate and set-up charge.....		20.00
	TOTAL	\$32.50

On reorders, the minimum quantity remains 10 rolls, but the set-up charge is dropped to \$15.00. On original orders of 50 or more rolls, the plate and set-up charge is eliminated. On special printed tape with a pattern printed to the edge so it can be slit below a 1/8" width, the minimum order is 35 rolls. List price becomes \$1.00 per roll, with a plate and set-up charge of \$15.00.

Special Slit Tapes

Chart-Pak will also precision-slit solid or patterned tapes to any special width. All special slitting will carry the price of the next standard width as shown in this catalog. Ten rolls or more are required for special slitting.

Special Printed Sheets

Special printed sheets available on pressure-sensitive MYLAR®, acetate, or paper can cut repetitive drawing time 50 to 90%. Can be reproduced by diazo or photographic process. Special colors can also be obtained on a custom order basis.

Special templates can be printed and die-cut on pressure-sensitive and heat-resistant Transmatte, clear or Matte-Tak Mylar*, Correction Paper or Opaque Template Sheet material.

*DuPont Registered Trademark

For a "quick quote" on Special Printed Sheets contact your local Chart-Pak dealer or write direct to Chart-Pak, Inc., Leeds, Mass.

Special Printed Title Blocks

Pre-printed title blocks may be ordered on clear or matte either right reading (applied on the face of tracing) or wrong reading (applied under the tracing). Heat-resistant adhesive will take diazo or photographic reproduction without damage. For pricing see the following table. **On a reorder there is no plate and set-up charge**, only a minimum order requirement of \$25.00.

REVISIONS				
STM	ZONE	DESCRIPTION	DATE	APPROVED
				BY
				ENGR
				STR
				WT
				CUST

TOLERANCES UNLESS OTHERWISE SPECIFIED	MATERIAL	DRAWN	TRACED	CHECKED	DESIGNED	APPROVED	DATE
	ANALYSIS	ECONOMY ENGINE CO. YOUNGSTOWN, OHIO					SCALE
.XXX - T .006 .XX - T .010		NAME					PART NO

[illegible]

AREA ENGINEER, C MINOT AIR FORCE NORTH DAKOTA	
APPROVED CHIEF, ENGINEERING BRANCH	
DRAWING NO.	

How to Order Special Printed Sheets and Title Blocks

Multiply the quantity by the list price per Block, and add Plate and Set Up Charge for the TOTAL LIST PRICE.

		LONGEST DIMENSION		
		Under 6"	Over 6" to 12-1/2"	Over 12-1/2" to 15"
SHORTEST DIMENSION	Under 1/2"	\$.015	\$.025	\$.03
	Over 1/2" to 1"	.025	.035	.04
	Over 1" to 2"	.04	.055	.07
	Over 2" to 3"	.055	.075	.105
	Over 3" to 4"	.07	.10	.14
	Over 4" to 5"	.085	.12	.165
	Over 5" to 6"	.....	.185	.26
	Over 6" to 8"	.....	.185	.26
	Over 8" to 10"	.....	.23	.32
	Over 10" to 12"	.....	.28	.38
Plate & Set Up Charge		\$30.00	\$37.50	\$45.00
Minimum Charge		\$45.00	\$55.00	\$65.00

Specify: ☐ Right Reading ☐ Wrong Reading
Apply Title Block to: ☐ Top of Drawing ☐ Underside of Drawing
Material: ☐ Mylar* Matte Tak ☐ Mylar* Clear Tak

*DuPont Trademark

Plastic Board Cleaner

Solution for cleaning Planning Boards,
Grid Sheets, Films.

No. 314 4 fl. oz. **75¢**



Chart-Pak Scalpel

Blade folds into handle.

No. 313 **35¢ ea.**

Chart-Pak "Stick Dot"

Clear cellophane $\frac{3}{4}$ " pressure-sensitive
"stick-dots" for fastening tracings to
drawing board — 250 dots per roll.

No. 329 **\$3.95/rl.**



Chart-Pak Safety Knife

For cutting wide tape. Plastic handle.
Retractable and replaceable blade.
Comes with blade.

No. 318 **35¢ ea.**



Chart-Pak Tape Cutter

Double beveled edge. Plastic. Cuts up
to 2" wide tape. Never damages base
material.

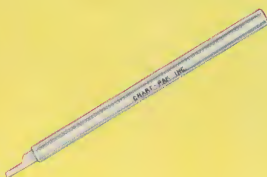
No. 317 **25¢ ea.**



Chart-Pak Frisket Knife

Easy to handle, $\frac{4}{8}$ " light-weight alu-
minum knife for precise and accurate
cutting. Especially useful in cutting
Shading film and Sheeted materials.
With removable blade.

No. 327 **25¢ ea.**



Desk Tape Holder

(Tapes Not Included)

Compact finished wood storage rack.
Perfect for desk or drawing board.
 $\frac{8}{8}$ " long. Keeps tapes handy and in
order.

No. 312 **\$1.00**

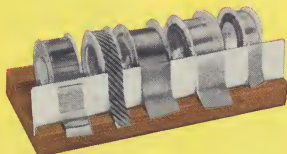


Chart-Pak Envelopes

Clear vinyl envelopes used to store
and protect Model A and E Planning
Boards.

No. 315A (21" x 33") **\$3.00 ea.**

No. 315E (11" x 17") **\$1.00 ea.**

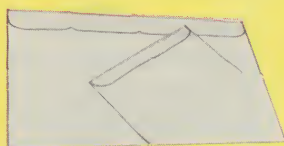


Chart-Pak Chisel

For easy removal of tapes and tem-
plates. Plastic, beveled edge.

No. 319 **50¢ per pkg. of 6**

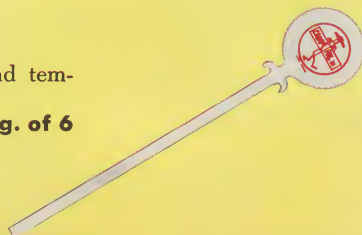


CHART-PAK ACCESSORIES

Correction Paper

Opaque, pressure-sensitive ledger paper. For prepar-
ing corrections of copy, title blocks, headings and
legends for charts, graphs, etc. for photographic re-
production.

No. 20PW 4" x 6" Pack of 20 sheets **\$1.00**

No. 21PW 9½" x 13½" Pack of 20 sheets **\$4.00**

Opaque Template Sheets

For making equipment and machine templates, etc.
Opaque, pressure-sensitive plasticized sheets. Non-
curling. Ruled 12 x 12 lines per inch, $\frac{1}{4}$ " lines ac-
cented. For photographic reproduction.

No. U3-O Sheet size 6½" x 8½" Pack of 12
sheets **\$1.75**

Grid area 6" x 8"

Same without printed grid

No. U4-O Sheet size 6¾" x 9½" Pack of 12
sheets **\$1.75**

Transparent Template Sheets

For making machine and equipment templates, etc.
Transparent, pressure-sensitive plastic sheets. Non
curling. Printed ruled 12 x 12 lines per inch, $\frac{1}{4}$ "
lines accented. For diazo or reproduction.

No. U3-T Sheet size 6¾" x 9½" Pack of 12
sheets **\$1.75**

Grid area 6" x 8"

Transmatte Non-Printed

For making machine and equipment templates, etc.
Non-curling, transparent, pressure-sensitive plastic
sheets. For diazo or reproduction.

No. U4-T Sheet size 6¾" x 9½" Pack of 12
sheets **\$1.75**

No. U5-T Sheet size 9½" x 13½" Pack of 12
sheets **\$4.25**

Clear Tak

For clear overlays to protect art work, etc. Clear,
polished, pressure-sensitive, light-weight "Mylar"[®]
.001" thick. Also in acetate. Easily applied — no
burnishing required. Adhesive is water-clear, heat-
resistant.

No. CT-12M ("Mylar"[®]) 13" x 21" Package of 12
sheets **\$5.90**

No. CT-12 (Acetate) 13" x 21" Package of 12
sheets **\$4.50**

ROLLS:

No. CT-13R 20 yds. x 13" (width) Mylar* **\$16.75**

Matte Tak

Takes typing or writing (with India ink, pencil or
crayon) either before or after applying to art work or
layouts. "Mylar"[®] film with a matte finish. Also in
Acetate. May be run through diazo machine.

No. MT-12M ("Mylar"[®]) 13" x 21"
Package of 12 sheets **\$6.50**

No. MT-12 (Acetate) 12" x 18"
Package of 12 sheets **\$4.50**

ROLL:

No. MT-13R 20 yds. x 13" (width) Mylar* **\$17.75**

*DuPont Trade Mark for polyester film

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